TEST-CARD DATA for

WT-110A *Automatic* Electron-Tube Tester

Availability of New Punched Cards and Punching Data

The RCA tube types included in the punched-card file supplied with the WT-110A *Automatic* Electron Tube Tester have been selected on the basis of their frequency of use in radio and television receivers. The card file may be kept up to date in two different ways, as follows:

Prepunched and printed cards for some tube types other than those supplied with the initial card file are obtainable at reasonable cost through local RCA distributors. These cards are provided in packages of 24 each and carry an RCA Accessory Type designation WG prefix, as for example, WG-310A. As new tube types come into general use, new Accessory Punched Card packages, including cards for these types, will be made available by RCA. *NOTE: Cards are not available individually. Cards for tube types other than those listed in this bulletin are not available.*

If the RCA WG-325A Accessory Unpunched Card package and the RCA WG-326A Accessory Card Punch (see Figure 2) are purchased, the operator may prepare punched cards for tube types of his own choosing.

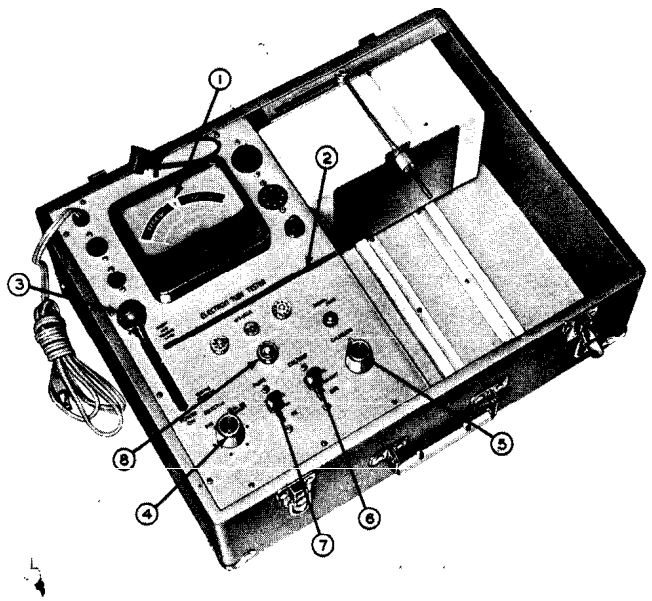

Figure 1. RCA WT-110A *Automatic* Electron-Tube Tester.

This alternate method of keeping the card file up to date provides some economy and permits the testing of a new tube type as soon as the card-punching information is published by RCA. It is not necessary to wait for a new prepunched card package to become available. Complete instructions on the preparation of punched cards are included elsewhere in this bulletin.

Accessory Punched Card Packages

Each of the WG Accessory Punched Card packages described below contains 24 prepunched and printed cards for the indicated tube types. Because some tube types require two cards for complete testing in the WT-110A, the number of types listed under the various WG-package numbers will differ. The following packages are available:

WG-310A

1R5, 1T4, 1U4, 1U5, 1V2, 3BN6, 3V4, 5Y3-GT, 6BA8-A, 6SA7-GT, 6SJ7-GT, 6SK7-GT, 6SQ7-GT, 12SA7-GT, 12SK7-GT, 12SQ7-GT, 25CD6-G, 35Z5-G, 50C5, 50L6-GT

WG-311A

1L6, 1S5, 2CY5, 3A3, 5AS4-A, 5BT8, 5R4-G, 5V6-GT, 6AS7-G, 6BZ8, 6H6, 12AJ6, 12AY7, 12CN5, 12J8, 25C5, 35Y4, 50A5, 50B5, 117Z3

WG-312A

3BU8, 3S4, 5AV8, 5B8, 6AZ8, 6BN8, 6CL8, 6CR6, 6F6, 6J4, 10C8, 12AC6, 12BK5, 12SG7, 12SJ7, 12SL7-GT, 25Z6-GT

WG-313A

1L4, 3Q4, 3Q5-GT, 5AU4, 5BE8, 6AQ6, 6AS6, 6CE5, 6DQ5, 6K7-GT, 6N7-GT, 6SG7, 6SH7, 7A8, 12D4, 14B6, 17AX4-GT, 17H3, 18A5, 25CA5, 80

WG-314A

1N5-GT, 3A5, 3DK6, 4BN6, 4BU8, 6DN6, 6SF5-GT, 6SR7, 7B7, 7C6, 7C7, 7F8, 8AU8, 8CM7, 8CN7, 12CT8, 25F5, 35Z4-GT

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RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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WG-315A

1A7-GT, 1AH4, 1AJ5, 1V6, 3A2, 5Z3, 6A8, 6BJ7, 6BJ8, 6C5, 6DC6, 6F5, 7AK7, 9U8-A, 12AD7, 14A7, 19BG6-GA, 25CU6, 26A6, 35B5

WG-316A

1H5-G, 1LH4, 1LN5, 3BE6, 4BC5, 5CM8, 6AJ4, 6AJ5, 6AK4, 6AN4, 6BV8, 7Y4, 12H6, 12J5-GT, 14Q7, 19X8, 26A7-GT, 45, 117Z6-GT

WG-317A

1AD4, 1LA6, 3A4, 5AW4, 5Y4-GT, 6A7, 6AM4, 6AX8, 6BA7, 6BC7, 6L7, 6Q7, 7A7, 7AG7, 12A6, 12R5, 19C8, 25AV5-GT, 35A5, 50Y6-GT, 50Y7-GT

WG-318A

1S4, 3AF4-A, 3BA6, 5Z4, 6AR5, 6BW4, 6K8, 7A6, 7B6, 7B8, 7V7, 9CL8, 12BA7, 12K7-GT, 12SH7, 17AV5-GA, 25DQ6, 25Z5, 28D7, 35Z3, 50X6

WG-319A

2A3, 4CY5, 6AD4, 6B4-G, 6B8, 6SB7-Y, 6SF7, 6SS7, 7A4, 7B5, 7H7, 7Q7, 7Z4, 12AW6, 12CS6, 12SC7, 14AF7, 14R7, 42, 75

WG-320A

1A5-GT, 1AG4, 1LB4, 1LC6, 6AN6, 6BC4, 6C6, 6D6, 6S8-GT, 7X7, 12SF5, 12SF7, 12SW7, 12SY7, 14F7, 41, 117L7/M7-GT, 117N7-GT

WG-321A

1A3, 3LF4, 5A6, 5T4, 5V3, 6AN5, 6BA5, 6BF7, 6CM8, 6F8-G, 7AF7, 7B4, 8BH8, 12A8-GT, 12AS5, 12Q7-GT, 17C5, 19J6, 25W6-GT, 78, 84

WG-322A

1LD5, 1LE3, 1-V, 2B3, 3CE5, 4BX8, 5AZ4, 5BQ7-A, 6AR6, 6BL4, 7A5, 8BN8, 8SN7-GTB, 12AL8, 12C8, 14C7, 26C6, 26D6, 76

How to Prepare Punched Cards

Preparation of a punched card for a particular tube type requires the following items (see Figure 2):

1. Master Card, RCA Replacement Parts Stock No. 215426.

2. Unpunched plastic cards, RCA WG-325A Accessory Unpunched Cards (24).

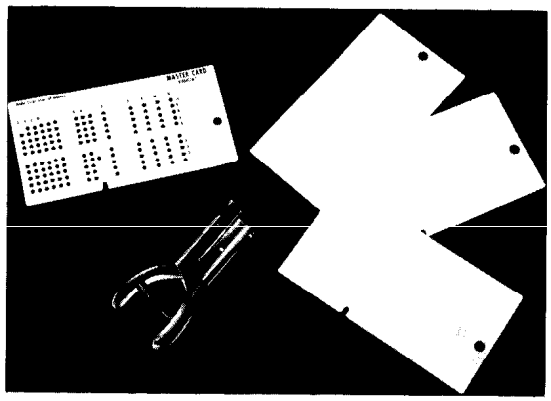

Figure 2. Items required for preparing punched cards. Master punched card is furnished with WT-110A.

3. Steel hand punch, RCA WG-326A Accessory Card Punch.

The Master Card is furnished with the WT-110A *Automatic* Electron-Tube Tester. The WG-325A Accessory Unpunched Cards and the WG-326A Accessory Card Punch may be purchased through any RCA distributor.

A new card is prepared as follows:

1. Place the Master Card on top of a blank card with the hole on the right-hand side of the card.

2. Carefully line up the index slots and the bottom edges of the cards. Clip the two cards together with paper clips around the edges (see Figure 3).

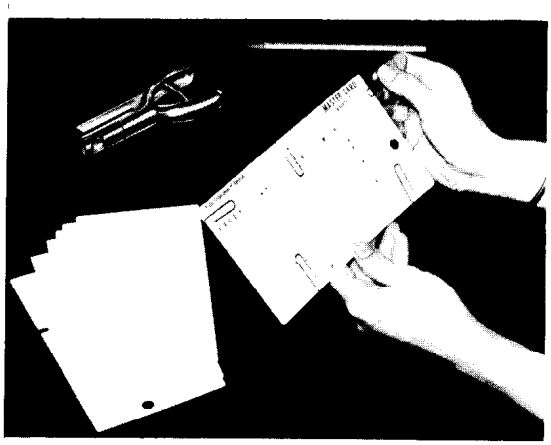

Figure 3. Line up index slots and bottoms of master card and blank card. Clip the two cards together.

3. Use a sharp-pointed pencil to outline only those holes called for in the hole-punching instructions. Trace

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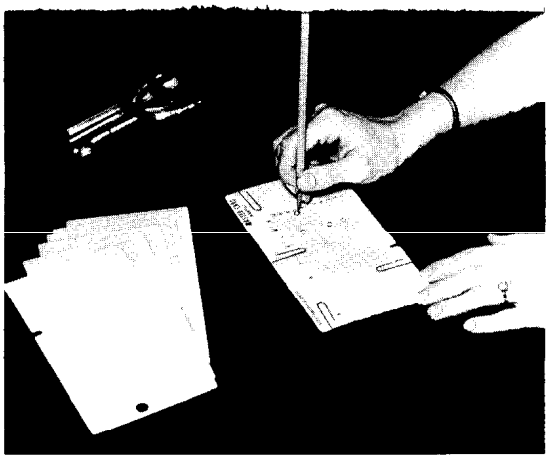

Figure 4. Use sharp pointed pencil to inscribe hole outlines on blank card.

circles through the appropriate holes in the master card and onto the blank card (see Figure 4).

4. When marking of the blank card is completed, recheck the locations of the inscribed circles against the hole-punching instructions for the particular tube type.

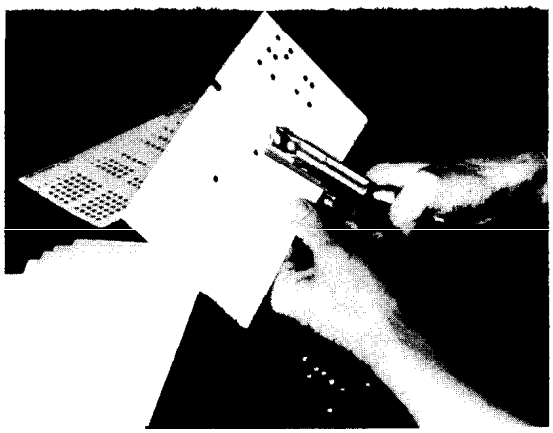

Figure 5. Center each penciled hole outline exactly in die on top of punch before punching hole.

5. Detach the paper clips and Master Card. Take care to center the penciled circles exactly in the die by sighting through the hole in the top of the punch. Then, punch out all the penciled circles on the blank card with the WG-326A Accessory Card Punch (see Figure 5).

6. When punching is completed, use a pen to inscribe the tube-type number and testing instructions onto the card. The lettering can be protected by spraying the finished card with a light coating of plastic.

Cards are added to or removed from the WT-110A card file by unscrewing the file rod at the front of the case and pushing the rod out through the rear eyelet. Insert or remove the card from the file and reinstall the rod.

"Premium"-Tube Prototype List

Although the WT-110A will find its greatest use in the testing of entertainment-type receiving tubes, the instrument may also be used to test the basic characteristics of a number of "premium"-type tubes whose designs are based upon tube types for which punched cards are available. The premium-tube types listed in column 1 can be tested by using the corresponding test card listed in column 2. Keep in mind, however, that premium versions may differ from their prototypes in some electrical characteristics, physical structure, or types of tests to which they are subjected.

TO TEST "PREMIUM" TYPE	USE TEST CARD FOR	TO TEST "PREMIUM" TYPE	USE TEST CARD FOR
1612	6L7	6005	6AQ5
1620	6J7	6005/ 6AQ5-W/ 6095	6AQ5
5654	6AK5	6046	25L6-GT
5654/ 6AK5-W	6AK5	6072	12AY7
5654/ 6AK5-W/ 6096	6AK5	6080-WA	6AS7-G
		6087	5Y3-GT
5691	6SL7-GT	6101	6J6
5692	6SN7-GT	6101/ 6J6-WA	6J6
5693	6SJ7	6135	6C4
5725	6AS6	6136	6AU6
5725/ 6AS6-W/ 6187	6AS6	6186/ 6AG5-WA	6AG5
		6189/ 12AU7-WA	12AU7
5726	6AL5	6201	12AT7
5726/ 6AL5-W	6AL5	6202	6X4
5726/ 6AL5-W/ 6097	6AL5	6265	6BH6
		6485	6AH6
5749	6BA6	6660	6BA6
5749/ 6BA6-W	6BA6	6661	6BH6
		6662	6BJ6
5750	6BE6	6663	6AL5
5751	12AX7	6669	6AQ5
5751-W	12AX7	6677	6CL6
5814-A	12AU7	6678	6U8
5814-WA	12AU7	6679	12AT7
5824	25B6-G	6680	12AU7
5881	6L6-G	6681	12AX7

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Card-Punching Data

The table on the following pages includes the locations of holes and special instructions for the test cards of tube types listed in the left-hand column. These data are complete and can be used to prepare a punched card for the WT-110A, as described earlier in this bulletin. Prepunched and printed cards for the tube types listed are contained in the RCA Accessory Punched Card packages described in column 2. *NOTE: Cards are not available individually. Cards for tube types other than those listed in this table are not available.*

The suffixes following the tube types listed here indicate the tube types in most general use. Other types, which carry suffixes not shown in this list, may be tested with the test card for the basic tube type. For example, the test card for 6F5 and 6F5-GT (listed as 6F5,-GT) may also be used to test the type 6F5-G.

TUBE TYPE	INCLUDED IN ACCESSORY PACKAGE NO.	CARD DATA	
		Hole Locations	Notes
1A3	WG-321A	1A 2G 3C 7B 3M 5N 6M 6N 3L 10K	Reject if below 2
1A5-GT	WG-320A	2A 3G 4E 5D 7B 5M 3N 6M 6N 1L 6J 4K	
1A7-GT	WG-315A	1B 2A 3B 4G 5D 6B 7B 10B 5M 3N 6M 6N 1L 9J 6K	
1AD4	WG-317A	1G 2E 3B 4D 5A 5M 3N 6M 6N 5L 7J 6K	
1AG4	WG-320A	1G 2E 3A 4D 5B 2M 1N 6M 6N 5L 10J 10K	
1AH4	WG-315A	1G 2E 3B 4D 5A 5M 3N 6M 6N 5L 5J 8K	For gas test, see instructions
1AJ5	WG-315A	(Card 1) 3G 4B 6A 5M 3N 6M 6N 3L 10K	DIODE SECTION, 1 OF 2 CARDS Reject if below 2
		(Card 2) 1G 2E 4B 5D 6A 5M 3N 6M 6N 5L 8J 10K	PENTODE SECTION, 2 OF 2 CARDS
1H5-G	WG-316A	(Card 1) 1B 2A 5G 7B 5M 3N 6M 6N 3L 10K	DIODE SECTION, 1 OF 2 CARDS Reject if below 2
		(Card 2) 1B 2A 3G 7B 10D 5M 3N 6M 6N 5L 1J 10K	TRIODE SECTION, 2 OF 2 CARDS
1L4	WG-313A	1A 2G 3E 6D 7B 5M 3N 6M 6N 1L 8J 6K	
1L6	WG-311A	1B 2G 3E 4D 5G 6G 7A 5M 3N 6M 6N 1L 6J 6K	
1LA6	WG-317A	1A 2G 3G 4D 5G 6G 8B 5M 3N 6M 6N 1L 7J 4K	
1LB4	WG-320A	1B 2G 3E 6D 8A 5M 3N 6M 6N 1L 2J 2K	
1LC6	WG-320A	1B 2G 3E 4D 5G 6G 8A 5M 3N 6M 6N 1L 4J 5K	
1LD5	WG-322A	(Card 1) 1A 4G 8B 5M 3N 6M 6N 3L 10K	DIODE SECTION, 1 OF 2 CARDS Reject if below 1
		(Card 2) 1A 2G 3E 6D 8B 5M 3N 6M 6N 1L 6J 8K	PENTODE SECTION, 2 OF 2 CARDS
1LE3	WG-322A	1A 2G 6D 8B 5M 3N 6M 6N 1L 2J 3K	
1LH4	WG-316A	(Card 1) 1A 4G 8B 5M 3N 6M 6N 3L 10K	DIODE SECTION, 1 OF 2 CARDS Reject if below 2
		(Card 2) 1A 2G 6D 8B 5M 3N 6M 6N 1L 3J 10K	TRIODE SECTION, 2 OF 2 CARDS For gas test, see instructions
1LN5	WG-316A	1A 2G 3E 4B 5B 6D 8B 5M 3N 6M 6N 1L 2J 7K	
1N5-GT	WG-314A	1B 2A 3G 4E 7B 10D 5M 3N 6M 6N 1L 2J 7K	
1R5	WG-310A	1B 2G 3G 4D 5B 6B 7A 5M 3N 6M 6N 1L 6J 6I 10I 3K	
1S4	WG-318A	1B 2G 3D 4E 5B 6G 7A 5M 3N 6M 6N 1L 9J 5K 6L 7L	
1S5	WG-311A	(Card 1) 1B 3G 7A 5M 3N 6M 6N 3L 10K	DIODE SECTION, 1 OF 2 CARDS Reject if below 2
		(Card 2) 1B 4E 5G 6D 7A 5M 3N 6M 6N 1L 6J 6I 10I 10K 6L 7L	PENTODE SECTION, 2 OF 2 CARDS
1T4	WG-310A	1A 2G 3E 6D 7B 5M 3N 6M 6N 1L 8J 7K	

Note: When gas test reference is shown, consider the need for the special Leakage/Gas test.

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TUBE TYPE	INCLUDED IN ACCESSORY PACKAGE NO.	CARD DATA	
		Hole Locations	Notes
1U4	WG-310A	1A 2G 3E 6D 7B 5M 3N 6M 6N 1L 6J 10K	
1U5	WG-310A	(Card 1) 1B 4G 7A 5M 3N 6M 6N 3L 10K	DIODE SECTION, 1 OF 2 CARDS Reject if below 2
		(Card 2) 1B 2G 3E 6D 7A 5M 3N 6M 6N 1L 5J 10K 6L 7L	PENTODE SECTION, 2 OF 2 CARDS
1-v	WG-322A	1A 2G 3C 4B 10M 9N 5M 2N 4L 5K 6L 9L	
1V2	WG-310A	4A 5B 9G 4M 5N 6M 6N 5L 9K	Reject if below 2
1V6	WG-315A	(Card 1) 1G 2E 3D 4B 5B 6B 7A 5M 3N 6M 6N 5L 6J 8K	PENTODE SECTION, 1 OF 2 CARDS
		(Card 2) 1B 2B 3B 4A 5D 6G 7B 5M 3N 6M 6N 5L 8J 9K	TRIODE SECTION, 2 OF 2 CARDS
2A3	WG-319A	1B 2G 3D 4A 5M 2N 6M 6N 1L 10J 4K 6L 8L	
2B3	WG-322A	2A 7B 10G 5M 3N 6M 6N 5L 6I 10I 4K	Reject if below 4
2CY5	WG-311A	1D 2C 3A 4B 5G 6E 7C 2M 3N 6M 6N 1L 1J 7I 9I 1K 6L 7L	
3A2	WG-315A	1A 2B 10G 2M 4N 6M 6N 5L 2K	Reject if below 3
3A3	WG-311A	2A 7B 10G 2M 4N 6M 6N 5L 7K	Reject if below 4
3A4	WG-317A	1B 2G 3E 4D 5A 7B 5M 3N 6M 6N 1L 9J 9K 6L 8L	
3A5	WG-314A	1B 2F 3D 4A 5D 6G 7B 5M 3N 6M 6N 1L 7J 8K 6L 7L	Test P1 and P2
3AF4-A	WG-318A	1G 2D 3A 4B 5C 2M 4N 6M 6N 1L 1J 8I 10I 3K 6L 7L	
3BA6	WG-318A	1D 2B 3A 4B 5G 6E 7C 2M 4N 6M 6N 1L 1J 7I 10I 6K 6L 7L	
3BE6	WG-316A	1D 2C 3A 4B 5G 6G 7C 2M 4N 6M 6N 1L 1J 6I 10I 3K 6L 7L	
3BN6	WG-310A	1C 2D 3A 4B 5G 6G 7G 2M 4N 6M 6N 5L 1J 8K 6L 7L	
3BU8	WG-312A	1C 2E 3F 4A 5B 6C 7D 8G 9C 2M 4N 6M 6N 1L 3J 6I 10I 7K	Test P1 and P2
3CE5	WG-322A	1D 2C 3A 4B 5G 6E 7C 2M 4N 6M 6N 1L 1J 6I 7I 9K 6L 8L	
3DK6	WG-314A	1D 2C 3A 4B 5G 6E 7C 2M 4N 6M 6N 1L 1J 7I 9I 2K 6L 7L	
3LF4	WG-321A	1A 2G 3E 6D 7B 8A 5M 3N 6M 6N 1L 9J 5K 6L 7L	
3Q4	WG-313A	1A 2G 3D 4E 5B 6G 7A 5M 3N 6M 6N 1L 9J 6K 6L 7L	
3Q5-GT	WG-313A	2B 3G 4E 5D 7A 8B 5M 3N 6M 6N 1L 9J 3K	
3S4	WG-312A	1A 2G 3D 4E 5B 6G 7A 5M 3N 6M 6N 1L 9J 5K 6L 7L	
3V4	WG-310A	1A 2G 3E 5B 6D 7A 5M 3N 6M 6N 1L 9J 6K 6L 7L	
4BC5	WG-316A	1D 2C 3A 4B 5G 6E 7C 1M 4N 6M 6N 1L 1J 6I 7I 5K 6L 7L	
4BN6	WG-314A	1C 2D 3A 4B 5G 6G 7G 1M 4N 6M 6N 5L 1J 8K 6L 7L	
4BU8	WG-314A	1C 2E 3F 4A 5B 6C 7D 8G 9C 1M 4N 6M 6N 1L 3J 6I 10I 7K	Test P1 and P2
4BX8	WG-322A	1F 2D 3C 4A 5B 6G 7D 8C 9B 1M 4N 6M 6N 1L 4J 6I 10I 2K 6L 7L	Test P1 and P2
4CY5	WG-319A	1D 2C 3A 4B 5G 6E 7C 2M 5N 6M 6N 1L 1J 7I 9I 1K 6L 7L	

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TUBE TYPE	INCLUDED IN ACCESSORY PACKAGE NO.	CARD DATA	
		Hole Locations	Notes
5A6	WG-321A	1G 3C 4A 5B 6E 7D 8C 1M 5N 6M 6N 1L 10J 9K 6L 8L	
5AS4	WG-311A	2A 4G 6F 8B 10M 9N 3M 1N 5L 1K 6L 10L	Test P1 and P2
5AU4	WG-313A	2A 4F 6G 8B 10M 9N 3M 2N 5L 1K 6L 10L	Test P1 and P2
5AV8	WG-312A	(Card 1) 4A 5B 6D 7C 8E 9G 1M 5N 6M 6N 1L 1J 6I 7I 4K 6L 7L	PENTODE SECTION, 1 OF 2 CARDS
		(Card 2) 1C 2D 3G 4A 5B 1M 5N 6M 6N 1L 6J 6I 10I 8K 6L 7L	TRIODE SECTION, 2 OF 2 CARDS
5AW4	WG-317A	2A 4F 6G 8B 10M 9N 4M 2N 5L 1K 6L 10L	Test P1 and P2
5AZ4	WG-322A	2A 4F 6G 8B 10M 9N 3M 1N 5L 7K 6L 10L	Test P1 and P2
5B8	WG-312A	(Card 1) 4A 5B 6D 7C 8E 9G 1M 5N 6M 6N 1L 1J 6I 7I 9K 6L 8L	PENTODE SECTION, 1 OF 2 CARDS
		(Card 2) 1C 2D 3G 4A 5B 1M 5N 6M 6N 1L 6J 6I 10I 8K 6L 7L	TRIODE SECTION, 2 OF 2 CARDS
5BE8	WG-313A	(Card 1) 4A 5B 6G 7E 8C 9D 1M 5N 6M 6N 1L 1J 7I 10I 9K 6L 8L	PENTODE SECTION, 1 OF 2 CARDS
		(Card 2) 1D 2G 3C 4A 5B 1M 5N 6M 6N 1L 1J 7I 10I 2K 6L 7L	TRIODE SECTION, 2 OF 2 CARDS
5BQ7-A	WG-322A	1F 2D 3C 4A 5B 6G 7D 8C 9B 1M 5N 6M 6N 1L 1J 7I 8I 9K 6L 8L	Test P1 and P2
5BT8	WG-311A	(Card 1) 1F 2G 3C 4A 5B 1M 5N 6M 6N 3L 9K	DIODE SECTION, 1 OF 2 CARDS Test P1 and P2. Reject if below 4.
		(Card 2) 4A 5B 6G 7E 8D 9C 1M 5N 6M 6N 1L 1J 6I 7I 9K 6L 8L	PENTODE SECTION, 2 OF 2 CARDS
5CM8	WG-316A	(Card 1) 2D 3C 4A 5B 6G 7E 1M 5N 6M 6N 1L 1J 6I 7I 9K 6L 8L	PENTODE SECTION, 1 OF 2 CARDS
		(Card 2) 1G 4A 5B 8C 9D 1M 5N 6M 6N 1L 2J 6I 10I 6K	TRIODE SECTION, 2 OF 2 CARDS For gas test, see instructions
5R4-G	WG-311A	2A 4G 6F 8B 10M 9N 5M 2N 5L 4K 6L 10L	Test P1 and P2
5T4	WG-321A	1B 2A 4G 6F 8B 10M 9N 3M 1N 5L 1K 6L 10L	Test P1 and P2
5V3	WG-321A	2A 4F 6G 8B 10M 9N 3M 2N 4L 7I 10I 9K 6L 10L	Test P1 and P2
5V6-GT	WG-311A	1B 2A 3G 4E 5D 7B 8C 1M 5N 6M 6N 1L 7J 6I 10I 7K 6L 7L	
5Y3-G, -GT	WG-310A	2A 4F 6G 7A 8B 10M 9N 5M 2N 5L 6K 6L 10L	Test P1 and P2
5Y4-G, -GT	WG-317A	2A 3F 5G 7A 8B 10M 9N 5M 2N 5L 7K 6L 10L	Test P1 and P2
5Z3	WG-315A	1A 2F 3G 4B 10M 9N 4M 1N 5L 3K 6L 10L	Test P1 and P2
5Z4	WG-318A	1B 2A 4G 6F 8B 10M 9N 5M 2N 4L 8K 6L 10L	Test P1 and P2
6A7, S	WG-317A	1A 2G 3G 4G 5D 6C 7B 10G 10M 9N 5M 2N 1L 7J 6I 10I 9K 6L 7L	
6A8,-G, -GT	WG-315A	1B 2A 3G 4G 5D 6G 7B 8B 10G 10M 9N 5M 2N 1L 7J 6I 10I 9K 6L 7L	
6AD4	WG-319A	1D 3A 5C 6B 8G 10M 9N 5M 2N 1L 1J 5K	
6AJ4	WG-316A	1D 2C 3D 4D 5G 6D 7A 8B 9D 10M 9N 5M 2N 1L 1J 7I 10I 1K 6L 7L	
6AJ5	WG-316A	1D 2C 3A 4B 5G 6E 7C 10M 9N 5M 2N 2L 1J 8K	
6AK4	WG-316A	1D 3A 5C 6B 8G 10M 9N 5M 2N 1L 7J 6I 10I 2K	
6AM4	WG-317A	1D 2C 3D 4D 5G 6D 7A 8B 9D 10M 9N 5M 2N 1L 1J 7I 10I 1K 6L 7L	
6AN4	WG-316A	1G 2D 3A 4B 5C 7G 10M 9N 5M 2N 1L 1J 7I 10I 1K 6L 7L	

Note: When gas test reference is shown, consider the need for the special Leakage/Gas test.

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TUBE TYPE	INCLUDED IN ACCESSORY PACKAGE NO.	CARD DATA	
		Hole Locations	Notes
6AN5	WG-321A	1D 2C 3A 4B 5G 6E 7C 10M 9N 5M 2N 1L 8J 6I 10I 2K 6L 7L	
6AN6	WG-320A	(Card 1) 1B 2F 3G 6C 7A 10M 9N 5M 2N 3L 7K	1 OF 2 CARDS Test P1 and P2. Reject if below 3
		(Card 2) 1B 4F 5G 6C 7A 10M 9N 5M 2N 3L 7K	2 OF 2 CARDS Test P1 and P2. Reject if below 3
6AQ6	WG-313A	(Card 1) 2C 3A 4B 5G 6F 10M 9N 5M 2N 4L 6I 10I 7K 6L 7L	DIODE SECTION, 1 OF 2 CARDS Test P1 and P2. Reject if below 3
		(Card 2) 1D 2C 3A 4B 7G 10M 9N 5M 2N 1L 2J 6I 10I 8K	TRIODE SECTION, 2 OF 2 CARDS For gas test, see instructions
6AR5	WG-318A	1D 2B 3A 4B 5G 6E 10M 9N 5M 2N 1L 9J 6I 10I 5K	
6AR6	WG-322A	1C 3G 5E 6A 7D 8B 10M 9N 4M 2N 1L 9J 8I 9I 7K 6L 7L	
6AS6	WG-313A	1D 2C 3A 4B 5G 6E 7C 10M 9N 5M 2N 1L 4J 6I 10I 1K	
6AS7-G	WG-311A	1D 2F 3C 4D 5G 6C 7A 8B 10M 9N 3M 2N 5L 1J 1K 6L 9L	Test P1 and P2
6AX8	WG-317A	(Card 1) 2D 3E 4A 5B 6G 7C 10M 9N 5M 2N 1L 1J 8I 10I 6K 6L 7L	PENTODE SECTION, 1 OF 2 CARDS
		(Card 2) 1G 4A 5B 8C 9D 10M 9N 5M 2N 1L 1J 7I 10I 2K 6L 7L	TRIODE SECTION, 2 OF 2 CARDS
6AZ8	WG-312A	(Card 1) 1G 2E 3C 4A 5B 6D 10M 9N 5M 2N 1L 1J 6I 7I 5K 6L 7L	PENTODE SECTION, 1 OF 2 CARDS
		(Card 2) 4A 5B 7C 8G 9D 10M 9N 5M 2N 1L 6J 6I 10I 8K 6L 7L	TRIODE SECTION, 2 OF 2 CARDS
6B4-G	WG-319A	2A 3G 5D 7B 10M 9N 3M 1N 1L 10J 4K 6L 8L	
6B8,-G	WG-319A	(Card 1) 1B 2A 4F 5G 7B 8C 10M 9N 5M 2N 3L 6I 10I 10K	DIODE SECTION, 1 OF 2 CARDS Test P1 and P2. Reject if below 2
		(Card 2) 1B 2A 3G 6E 7B 8C 10D 10M 9N 5M 2N 1L 5J 6I 10I 8K	PENTODE SECTION, 2 OF 2 CARDS
6BA5	WG-321A	1D 3A 5G 6B 7E 8C 10M 9N 5M 2N 1L 1J 4K	
6BA7	WG-317A	1G 2D 3C 4A 5B 6G 7G 9G 10M 9N 5M 2N 1L 1J 6I 10I 1K 6L 7L	
6BA8-A	WG-310A	(Card 1) 4A 5B 6C 7D 8E 9G 10M 9N 5M 2N 1L 1J 6I 7I 2K 6L 7L	PENTODE SECTION, 1 OF 2 CARDS
		(Card 2) 1C 2D 3G 4A 5B 10M 9N 5M 2N 1L 7J 6I 10I 4K	TRIODE SECTION, 2 OF 2 CARDS
6BC4	WG-320A	1G 2D 4A 5B 6C 10M 9N 5M 2N 1L 1J 8I 10I 1K 6L 7L	
6BC7	WG-317A	1C 2H 4A 5B 6F 7C 8G 9C 10M 9N 5M 2N 3L 6I 10I 6K 6L 8L	Test P1, P2, and P3 Reject if below 4
6BF7	WG-321A	1F 2D 3A 4C 5C 6B 7D 8G 10M 9N 5M 2N 1L 1J 7I 9I 5K 6L 7L	Test P1 and P2
6BJ7	WG-315A	1C 2H 4A 5B 6F 7C 8G 9C 10M 9N 5M 2N 3L 6I 10I 8K 6L 7L	Test P1, P2, and P3 Reject if below 3
6BJ8	WG-315A	(Card 1) 1F 2C 3C 4A 5B 6G 10M 9N 5M 2N 3L 6I 10I 7K 6L 8L	DIODE SECTION, 1 OF 2 CARDS Test P1 and P2. Reject if below 3
		(Card 2) 4A 5B 7G 8D 9C 10M 9N 5M 2N 1L 7J 6I 10I 5K	TRIODE SECTION, 2 OF 2 CARDS
6BL4	WG-322A	3C 5G 7A 8B 10M 9N 3M 2N 4L 6I 10I 2K 6L 10L	
6BN8	WG-312A	(Card 1) 1F 2C 3C 4A 5B 6G 10M 9N 5M 2N 3L 6I 10I 4K 6L 7L	DIODE SECTION, 1 OF 2 CARDS Test P1 and P2. Reject if below 3
		(Card 2) 4A 5B 7G 8D 9C 10M 9N 5M 2N 1L 2J 6I 10I 7K 6L 7L	TRIODE SECTION, 2 OF 2 CARDS For gas test, see instructions

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TUBE TYPE	INCLUDED IN ACCESSORY PACKAGE NO.	CARD DATA	
		Hole Locations	Notes
6BV8	WG-316A	(Card 1) 4A 5B 6G 7C 8C 9F 10M 9N 5M 2N 3L 7K 6L 8L	DIODE SECTION, 1 OF 2 CARDS Test P1 and P2. Reject if below 3
		(Card 2) 1C 2D 3G 4A 5B 10M 9N 5M 2N 1L 3J 1K	TRIODE SECTION, 2 OF 2 CARDS
6BW4	WG-318A	1F 4A 5B 7G 9C 10M 9N 5M 2N 5L 6I 10I 5K 6L 10L	Test P1 and P2
6BZ8	WG-311A	1F 2D 3C 4A 5B 6G 7D 8C 9B 10M 9N 5M 2N 1L 1J 7I 9I 2K 6L 7L	Test P1 and P2
6C5,-GT	WG-315A	1B 2B 3G 5D 7A 8C 10M 9N 5M 2N 1L 6J 6I 10I 6K	
6C6	WG-320A	1A 2G 3E 4C 5C 6B 10D 10M 9N 5M 2N 1L 6J 6I 10I 8K	
6CE5	WG-313A	1D 2C 3A 4B 5G 6E 7C 10M 9N 5M 2N 1L 1J 6I 7I 9K 6L 8L	
6CL8	WG-312A	(Card 1) 4A 5B 6G 7E 8C 9D 10M 9N 5M 2N 1L 2J 6I 10I 3K 6L 7L	PENTODE SECTION, 1 OF 2 CARDS
		(Card 2) 1D 2G 3C 4A 5B 10M 9N 5M 2N 1L 2J 6I 10I 1K 6L 7L	TRIODE SECTION, 2 OF 2 CARDS
6CM8	WG-321A	(Card 1) 2D 3C 4A 5B 6G 7E 8C 10M 9N 5M 2N 1L 1J 6I 7I 9K 6L 8L	PENTODE SECTION, 1 OF 2 CARDS
		(Card 2) 1G 4A 5B 8C 9D 10M 9N 5M 2N 1L 2J 6I 10I 7K	TRIODE SECTION, 2 OF 2 CARDS For gas test, see instructions
6CR6	WG-312A	(Card 1) 1C 2G 3A 4B 10M 9N 5M 2N 3L 10K	DIODE SECTION, 1 OF 2 CARDS Reject if below 3
		(Card 2) 1C 3A 4B 5G 6E 7D 10M 9N 5M 2N 1L 4J 6I 10I 4K	PENTODE SECTION, 2 OF 2 CARDS
6D6	WG-320A	1A 2G 3E 4C 5C 6B 10D 10M 9N 5M 2N 1L 6J 6I 10I 7K	
6DC6	WG-315A	1D 2C 3A 4B 5G 6E 7C 10M 9N 5M 2N 1L 1J 6I 7I 5K 6L 7L	
6DN6	WG-314A	1B 2B 3C 5D 7A 8E 10G 10M 9N 3M 2N 1L 10J 8I 10I 3K 6L 7L	
6DQ5	WG-313A	1D 2A 3C 4E 5D 6C 7B 8E 10G 10M 9N 3M 2N 1L 10J 4K 6L 7L	
6F5,-GT	WG-315A	1B 2B 4G 7A 8C 10D 10M 9N 5M 2N 1L 2J 6I 10I 8K	For gas test, see instructions
6F6,-G,-GT	WG-312A	1B 2A 3G 4E 5D 7B 8C 10M 9N 3M 1N 1L 9J 6I 10I 5K	
6F8,-G	WG-321A	2A 3F 4C 5D 6G 7B 8C 10D 10M 9N 5M 2N 1L 1J 6I 10I 1K	Test P1 and P2
6H6,-GT	WG-311A	1B 2A 3F 4C 5G 7B 8C 10M 9N 5M 2N 3L 9K 6L 7L	Test P1 and P2. Reject if below 3
6J4	WG-312A	1D 2C 3A 4B 7G 10M 9N 5M 2N 1L 1J 7I 9I 7K 6L 8L	
6K7,-G,-GT	WG-313A	1B 2A 3G 4E 5C 7B 8C 10D 10M 9N 5M 2N 1L 2J 6I 10I 6K	
6K8,-G,-GT	WG-318A	(Card 1) 1A 2A 3G 4G 5D 7B 8C 10B 10M 9N 5M 2N 1L 1J 6I 7I 5K	HEXODE SECTION, 1 OF 2 CARDS
		(Card 2) 1B 2B 5D 6G 7A 8C 10M 9N 5M 2N 1L 1J 6I 10I 8K 6L 7L	TRIODE SECTION, 2 OF 2 CARDS
6L7,-G	WG-317A	1B 2A 3G 4E 5D 7B 8C 10D 10M 9N 5M 2N 1L 6J 6I 10I 6K	
6N7,-GT	WG-313A	1B 2A 3F 4D 5D 6G 7B 8C 10M 9N 5M 2N 1L 4J 6I 10I 8K	Test P1 and P2

Note: When gas test reference is shown, consider the need for the special Leakage/Gas test.

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		Hole Locations	Notes
6Q7,-G,-GT	WG-317A	(Card 1) 1B 2A 4G 5F 7B 8C 10M 9N 5M 2N 3L 10K	DIODE SECTION, 1 OF 2 CARDS Test P1 and P2. Reject if below 3
		(Card 2) 1B 2A 3G 7B 8C 10D 10M 9N 5M 2N 1L 2J 6I 10I 8K	TRIODE SECTION, 2 OF 2 CARDS For gas test, see instructions
6S8-GT	WG-320A	(Card 1) 1H 2C 3F 4G 5C 7A 8B 10M 9N 5M 2N 3L 10K	DIODE SECTION, 1 OF 2 CARDS Test P1, P2, P3. Reject if below 3
		(Card 2) 2C 6G 7A 8B 10D 10M 9N 5M 2N 1L 2J 10K	TRIODE SECTION, 2 OF 2 CARDS For gas test, see instructions
6SA7,-GT	WG-310A	1B 2A 3G 4G 5D 6C 7B 8C 10M 9N 5M 2N 1L 6J 6I 10I 6K 6L 7L	
6SB7-Y	WG-319A	1B 2A 3G 4G 5D 6C 7B 8C 10M 9N 5M 2N 1L 1J 6I 10I 1K 6L 7L	
6SF5,-GT	WG-314A	1B 2C 3D 5G 7A 8B 10M 9N 5M 2N 1L 2J 7I 9I 9K	For gas test, see instructions
6SF7	WG-319A	(Card 1) 1B 3C 5G 7A 8B 10M 9N 5M 2N 3L 10K	DIODE SECTION, 1 OF 2 CARDS Reject if below 2
		(Card 2) 1B 2D 3C 4E 6G 7A 8B 10M 9N 5M 2N 1L 2J 6I 10I 4K	PENTODE SECTION, 2 OF 2 CARDS
6SG7	WG-313A	1B 2A 3C 4D 6E 7B 8G 10M 9N 5M 2N 1L 2J 6I 10I 5K 6L 7L	
6SH7	WG-313A	1B 2A 3C 4D 6E 7B 8G 10M 9N 5M 2N 1L 2J 6I 10I 6K 6L 7L	
6SJ7,-GT	WG-310A	1B 2A 3C 4D 5C 6E 7B 8G 10M 9N 5M 2N 1L 6J 7I 10I 7K	
6SK7,-GT	WG-310A	1B 2A 3C 4D 5C 6E 7B 8G 10M 9N 5M 2N 1L 4J 6I 10I 9K 6L 7L	
6SQ7,-GT	WG-310A	(Card 1) 1B 3C 4F 5G 7A 8B 10M 9N 5M 2N 3L 10K	DIODE SECTION, 1 OF 2 CARDS Test P1 and P2. Reject if below 2
		(Card 2) 1B 2D 3C 6G 7A 8B 10M 9N 5M 2N 1L 2J 6I 10I 9K	TRIODE SECTION, 2 OF 2 CARDS For gas test, see instructions
6SR7	WG-314A	(Card 1) 1B 3C 4F 5G 7A 8B 10M 9N 5M 2N 4L 8K 6L 7L	DIODE SECTION, 1 OF 2 CARDS Test P1 and P2. Reject if below 3
		(Card 2) 1B 2D 3C 6G 7A 8B 10M 9N 5M 2N 1L 7J 6I 10I 8K	TRIODE SECTION, 2 OF 2 CARDS
6SS7	WG-319A	1B 2A 3C 4D 5C 6E 7B 8G 10M 9N 5M 2N 1L 2J 6I 10I 4K	
7A4	WG-319A	1A 2G 6D 7C 8B 10M 9N 5M 2N 1L 2J 6I 10I 7K 6L 7L	
7A5	WG-322A	1A 2G 3E 6D 7C 8B 10M 9N 5M 2N 1L 9J 6I 10I 3K 6L 7L	
7A6	WG-318A	1A 2C 3F 5B 6G 7C 8B 10M 9N 5M 2N 3L 6I 10I 8K 6L 7L	Test P1 and P2. Reject if below 3
7A7	WG-317A	1A 2G 3E 4C 5B 6D 7C 8B 10M 9N 5M 2N 1L 2J 6I 10I 2K	
7A8	WG-313A	1A 2G 3E 4D 5G 6G 7C 8B 10M 9N 5M 2N 1L 1J 6I 10I 7K 6L 7L	
7AF7	WG-321A	1A 2C 3F 4D 5D 6G 7C 8B 10M 9N 5M 2N 1L 1J 6I 10I 1K	Test P1 and P2
7AG7	WG-317A	1A 2G 3E 4C 5B 6D 7C 8B 10M 9N 5M 2N 1L 1J 8K 6L 7L	
7AK7	WG-315A	1A 2G 3E 4C 5B 6D 7C 8B 10M 9N 4M 2N 1L 1J 8K 6L 7L	
7B4	WG-321A	1A 2G 6D 7C 8B 10M 9N 5M 2N 1L 2J 6I 10I 8K	For gas test, see instructions
7B5	WG-319A	1A 2G 3E 6D 7C 8B 10M 9N 5M 2N 1L 9J 6I 10I 5K	

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TUBE TYPE	INCLUDED IN ACCESSORY PACKAGE NO.	CARD DATA	
		Hole Locations	Notes
7B6	WG-318A	(Card 1) 1A 5F 6G 7C 8B 10M 9N 5M 2N 4L 6I 10I 10K 6L 8L	DIODE SECTION, 1 OF 2 CARDS Reject if below 3. Test P1 and P2
		(Card 2) 1A 2G 3D 4B 7C 8B 10M 9N 5M 2N 1L 2J 6I 10I 9K	TRIODE SECTION, 2 OF 2 CARDS
7B7	WG-314A	1A 2G 3E 4C 6D 7C 8B 10M 9N 5M 2N 1L 6J 6I 10I 5K	
7B8	WG-318A	1A 2G 3G 4D 5G 6G 7C 8B 10M 9N 5M 2N 1L 7J 6I 10I 8K 6L 7L	
7C6	WG314-A	(Card 1) 1A 4C 5F 6G 7C 8B 10M 9N 5M 2N 4L 8K 6L 7L	DIODE SECTION, 1 OF 2 CARDS Test P1 and P2. Reject if below 3
		(Card 2) 1A 2G 3D 4C 7C 8B 10M 9N 5M 2N 1L 1J 6I 10I 8K	TRIODE SECTION, 2 OF 2 CARDS
7C7	WG-314A	1A 2G 3E 4C 5G 6D 7C 8B 10M 9N 5M 2N 1L 6J 6I 10I 7K	
7F8	WG-314A	1D 2A 3F 4C 5C 6G 7B 8D 10M 9N 5M 2N 1L 3J 5K	Test P1 and P2 For gas test, see instructions
7H7	WG-319A	1A 2G 3E 4C 5B 6D 7C 8B 10M 9N 5M 2N 1L 2J 6I 10I 5K 6L 7L	
7Q7	WG-319A	1A 2G 3G 4D 5B 6B 7C 8B 10M 9N 5M 2N 1L 2J 6I 10I 6K 6L 7L	
7V7	WG-318A	1A 2G 3E 4C 5B 6D 7C 8B 10M 9N 5M 2N 1L 1J 8I 10I 5K 6L 7L	
7X7	WG-320A	(Card 1) 1A 4C 5G 6F 7C 8B 10M 9N 5M 2N 3L 6I 10I 7K 6L 8L	DIODE SECTION, 1 OF 2 CARDS Test P1 and P2. Reject if below 2
		(Card 2) 1A 2G 3D 4C 8B 10M 9N 5M 2N 1L 2J 6I 10I 9K	TRIODE SECTION, 2 OF 2 CARDS For gas test, see instructions
7Y4	WG-316A	1A 3F 6G 7C 8B 10M 9N 5M 2N 5L 6K 6L 10L	Test P1 and P2
7Z4	WG-319A	1A 3F 6G 7C 8B 10M 9N 5M 2N 5L 7K 6L 10L	Test P1 and P2
8AU8-A	WG-314A	(Card 1) 4A 5B 6C 7D 8E 9G 10M 9N 5M 3N 1L 1J 8I 10I 8K 6L 8L	PENTODE SECTION, 1 OF 2 CARDS
		(Card 2) 1C 2D 3G 4A 5B 10M 9N 5M 3N 1L 1J 8I 10I 6K 6L 7L	TRIODE SECTION, 2 OF 2 CARDS
8BH8	WG-321A	(Card 1) 4A 5B 6C 7D 8E 9G 10M 9N 5M 3N 1L 1J 7I 9I 3K 6L 7L	PENTODE SECTION, 1 OF 2 CARDS
		(Card 2) 1C 2D 3G 4A 5B 10M 9N 5M 3N 1L 6J 6I 10I 7K 6L 7L	TRIODE SECTION, 2 OF 2 CARDS
8BN8	WG-322A	(Card 1) 1F 2C 3C 4A 5B 6G 10M 9N 5M 3N 3L 6I 10I 7K 6L 8L	DIODE SECTION, 1 OF 2 CARDS Test P1 and P2. Reject if below 3
		(Card 2) 4A 5B 7G 8D 9C 10M 9N 5M 3N 1L 2J 8I 10I 1K	TRIODE SECTION, 2 OF 2 CARDS For gas test, see instructions
8CM7	WG-314A	(Card 1) 3C 4A 5B 6G 7D 10M 9N 5M 3N 1L 6J 6I 10I 5K	TRIODE SECTION # 1, 1 OF 2 CARDS
		(Card 2) 1G 4A 5B 8D 9C 10M 9N 5M 3N 1L 6J 6I 10I 7K 6L 7L	TRIODE SECTION # 2, 2 OF 2 CARDS
8SN7-GTB	WG-322A	1D 2F 3C 4D 5G 6C 7A 8B 10M 9N 5M 3N 1L 1J 6I 10I 1K	Test P1 and P2
8CN7	WG-314A	(Card 1) 1F 2G 3C 4A 5B 10M 9N 5M 3N 3L 7K 6L 8L	DIODE SECTION, 1 OF 2 CARDS Reject if below 3. Test P1 and P2
		(Card 2) 3C 4A 5B 6C 7D 8G 10M 9N 5M 3N 1L 2J 6I 10I 8K	TRIODE SECTION, 2 OF 2 CARDS For gas test, see instructions
9CL8	WG-318A	(Card 1) 4A 5B 6G 7E 8C 9D 10M 9N 5M 4N 1L 2J 6I 10I 4K 6L 7L	TETRODE SECTION, 1 OF 2 CARDS
		(Card 2) 1D 2G 3C 4A 5B 10M 9N 5M 4N 1L 1J 7I 10I 1K 6L 7L	TRIODE SECTION, 2 OF 2 CARDS

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		Hole Locations	Notes
9U8	WG-315A	(Card 1) 2D 3E 4A 5B 6G 7C 10M 9N 5M 4N 1L 1J 7I 10I 9K 6L 8L	PENTODE SECTION, 1 OF 2 CARDS
		(Card 2) 1G 4A 5B 8C 9D 10M 9N 5M 4N 1L 1J 7I 10I 2K 6L 7L	TRIODE SECTION, 2 OF 2 CARDS
10C8	WG-312A	(Card 1) 4A 5B 6G 7E 8D 9C 10M 9N 4M 5N 1L 1J 7I 9I 2K 6L 7L	PENTODE SECTION, 1 OF 2 CARDS
		(Card 2) 1G 2D 3C 4A 5B 10M 9N 4M 5N 1L 3J 6I 10I 7K 6L 7L	TRIODE SECTION, 2 OF 2 CARDS For gas test, see instructions
12A6	WG-317A	1B 2A 3G 4E 5D 7B 8C 10M 9N 2M 3N 1L 8J 6I 10I 3K	
12A8-GT	WG-321A	1B 2A 3G 4G 5D 6G 7B 8C 10B 10M 9N 2M 3N 1L 7J 6I 10I 9K 6L 7L	
12AC6	WG-312A	1D 2B 3A 4B 5G 6E 7C 10M 9N 2M 3N 2L 1J 9K	
12AD7	WG-315A	1G 2D 3C 4A 5B 6F 7D 8C 10M 9N 2M 3N 1L 2J 6I 10I 8K	Test P1 and P2 For gas test, see instructions
12AJ6	WG-311A	(Card 1) 2C 3A 4B 5F 6G 10M 9N 2M 3N 3L 10K	DIODE SECTION, 1 OF 2 CARDS Test P1 and P2. Reject if below 2
		(Card 2) 1D 2C 3A 4B 7G 10M 9N 2M 3N 2L 1J 7I 9I 9K	TRIODE SECTION, 2 OF 2 CARDS For gas test, see instructions
12AL8	WG-322A	(Card 1) 2D 3E 4A 5B 6G 7C 10M 9N 2M 3N 2L 2J 6I 10I 2K 6L 7L	TETRODE SECTION, 1 OF 2 CARDS For gas test, see instructions
		(Card 2) 1G 4A 5B 8D 9C 10M 9N 2M 3N 1L 5J 6I 10I 8K	TRIODE SECTION, 2 OF 2 CARDS
12AS5	WG-321A	1C 2D 3A 4B 6E 7G 10M 9N 2M 3N 1L 1J 9I 10I 5K 6L 7L	
12AW6	WG-319A	1D 2C 3A 4B 5G 6E 7B 10M 9N 2M 3N 1L 1J 6I 7I 6K 6L 7L	
12AY7	WG-311A	1F 2D 3C 4A 5B 6G 7D 8C 10M 9N 2M 3N 1L 3J 6I 10I 10K 6L 7L	Test P1 and P2
12BA7	WG-318A	1G 2D 3C 4A 5B 6B 7B 8B 9G 10M 9N 2M 3N 1L 2J 6I 10I 1K 6L 7L	
12BK5	WG-312A	1G 3D 4A 5B 6C 7D 8E 10M 9N 2M 3N 1L 5J 6I 10I 3K 6L 7L	
12C8	WG-322A	(Card 1) 1B 2B 4F 5G 7A 8C 10M 9N 2M 3N 3L 10K	DIODE SECTION, 1 OF 2 CARDS Test P1 and P2. Reject if below 2
		(Card 2) 1B 2B 3G 6E 7A 8C 10D 10M 9N 2M 3N 1L 6J 6I 10I 8K	PENTODE SECTION, 2 OF 2 CARDS
12CN5	WG-311A	1C 2D 3A 4B 5D 6E 7G 10M 9N 2M 3N 2L 1J 6I 10I 10K 6L 8L	
12CS6	WG-319A	1D 2C 3A 4B 5G 6G 7B 10M 9N 2M 3N 1L 7J 6I 10I 8K 6L 7L	
12CT8	WG-314A	(Card 1) 4A 5B 6G 7E 8D 9C 10M 9N 2M 3N 1L 1J 7I 10I 2K 6L 7L	PENTODE SECTION, 1 OF 2 CARDS
		(Card 2) 1G 2D 3C 4A 5B 10M 9N 2M 3N 1L 1J 8I 9I 5K 6L 7L	TRIODE SECTION, 2 OF 2 CARDS
12D4	WG-313A	3C 5G 7A 8B 10M 9N 2M 3N 4L 6I 10I 5K 6L 10L	
12H6	WG-316A	2A 3F 4C 5G 7B 8C 10M 9N 2M 3N 3L 9K 6L 7L	Test P1 and P2. Reject if below 3
12J5-GT	WG-316A	1B 2B 3G 5D 7A 8C 10M 9N 2M 3N 1L 1J 6I 10I 8K 6L 7L	
12J8	WG-311A	(Card 1) 4A 5B 7C 8F 9G 10M 9N 2M 3N 3L 10K 6L 9L	DIODE SECTION, 1 OF 2 CARDS Test P1 and P2. Reject if below 3
		(Card 2) 1D 2C 3E 4A 5B 6G 10M 9N 2M 3N 2L 1J 6I 10I 4K 6L 7L	TETRODE SECTION, 2 OF 2 CARDS

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		Hole Locations	Notes
12K7-GT	WG-318A	1B 2B 3G 4E 5C 7A 8C 10D 10M 9N 2M 3N 1L 2J 6I 10I 6K	
12Q7-GT	WG-321A	(Card 1) 1B 2B 4F 5G 7A 8C 10M 9N 2M 3N 3L 10K	DIODE SECTION, 1 OF 2 CARDS Test P1 and P2. Reject if below 2
		(Card 2) 1B 2B 3G 7A 8C 10D 10M 9N 2M 3N 1L 2J 6I 10I 8K	TRIODE SECTION, 2 OF 2 CARDS For gas test, see instructions
12R5	WG-317A	1C 2D 3A 4B 5D 6E 7G 10M 9N 2M 3N 1L 9J 6I 9I 2K 6L 7L	
12SA7-GT	WG-310A	1B 2A 3G 4G 5D 6C 7B 8C 10M 9N 2M 3N 1L 6J 6I 10I 7K 6L 7L	
12SC7	WG-319A	1B 2F 3D 4D 5G 6C 7A 8B 10M 9N 2M 3N 1L 2J 6I 10I 9K	Test P1 and P2 For gas test, see instructions
12SF5,-GT	WG-320A	1B 2C 3D 5G 7A 8B 10M 9N 2M 3N 1L 2J 6I 10I 8K	For gas test, see instructions
12SF7	WG-320A	(Card 1) 1B 3C 5G 7A 8B 10M 9N 2M 3N 4L 7K 6L 7L	DIODE SECTION, 1 OF 2 CARDS Reject if below 2
		(Card 2) 1B 2D 3C 4E 6G 7A 8B 10M 9N 2M 3N 1L 2J 6I 10I 3K	PENTODE SECTION, 2 OF 2 CARDS
12SG7	WG-312A	1B 2B 3C 4D 5C 6E 7A 8G 10M 9N 2M 3N 1L 2J 6I 10I 5K 6L 7L	
12SH7	WG-318A	1B 2B 3C 4D 5C 6E 7A 8G 10M 9N 2M 3N 1L 2J 6I 10I 6K 6L 7L	
12SJ7,-GT	WG-312A	1B 2B 3C 4D 5C 6E 7A 8G 10M 9N 2M 3N 1L 6J 7I 10I 7K	
12SK7,-GT	WG-310A	1B 2B 3C 4D 5C 6E 7A 8G 10M 9N 2M 3N 1L 4J 6I 10I 9K 6L 7L	
12SL7,-GT	WG-312A	1D 2F 3C 4D 5G 6C 7A 8B 10M 9N 2M 3N 1L 2J 6I 10I 8K	Test P1 and P2 For gas test, see instructions
12SQ7,-GT	WG-310A	(Card 1) 1B 3C 4F 5G 7A 8B 10M 9N 2M 3N 3L 10K	DIODE SECTION, 1 OF 2 CARDS Test P1 and P2. Reject if below 2
		(Card 2) 1B 2D 3C 6G 7A 8B 10M 9N 2M 3N 1L 2J 6I 10I 9K	TRIODE SECTION, 2 OF 2 CARDS For gas test, see instructions
12SW7	WG-320A	(Card 1) 1B 3C 4F 5G 7A 8B 10M 9N 2M 3N 3L 8K 6L 7L	DIODE SECTION, 1 OF 2 CARDS Test P1 and P2
		(Card 2) 1B 2D 3C 6G 7A 8B 10M 9N 2M 3N 1L 7J 6I 10I 7K	TRIODE SECTION, 2 OF 2 CARDS
12SY7	WG-320A	1B 2A 3G 4G 5D 6C 7B 8C 10M 9N 2M 3N 1L 6J 6I 10I 7K 6L 7L	
14A7	WG-315A	1B 2G 3E 4C 5B 6D 7C 8A 10M 9N 2M 3N 1L 2J 6I 10I 2K	
14AF7	WG-319A	1B 2C 3F 4D 5D 6G 7C 8A 10M 9N 2M 3N 1L 1J 6I 10I 2K	Test P1 and P2
14B6	WG-313A	(Card 1) 1B 4C 5F 6G 7C 8A 10M 9N 2M 3N 4L 8K 6L 7L	DIODE SECTION, 1 OF 2 CARDS Test P1 and P2. Reject if below 3
		(Card 2) 1B 2G 3D 4C 7C 8A 10M 9N 2M 3N 1L 2J 6I 10I 8K	TRIODE SECTION, 2 OF 2 CARDS For gas test, see instructions
14C7	WG-322A	1B 2G 3E 4C 5B 6D 7C 8A 10M 9N 2M 3N 1L 3J 6I 10I 3K	
14F7	WG-320A	1B 2C 3F 4D 5D 6G 7C 8A 10M 9N 2M 3N 1L 2J 6I 10I 8K	Test P1 and P2 For gas test, see instructions
14Q7	WG-316A	1B 2G 3G 4D 5B 6B 7C 8A 10M 9N 2M 3N 1L 6J 6I 10I 7K 6L 7L	
14R7	WG-319A	(Card 1) 1B 3F 4G 7C 8A 10M 9N 2M 3N 3L 10K	DIODE SECTION, 1 OF 2 CARDS Test P1 and P2. Reject if below 1
		(Card 2) 1B 2G 5E 6D 7C 8A 10M 9N 2M 3N 1L 5J 6I 10I 4K	PENTODE SECTION, 2 OF 2 CARDS

Note: When gas test reference is shown, consider the need for the special Leakage/Gas test.

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TUBE TYPE	INCLUDED IN ACCESSORY PACKAGE NO.	CARD DATA	
		Hole Locations	Notes
17AV5-GA	WG-318A	1D 2A 3C 5G 7B 8E 9M 8N 4M 2N 1L 10J 7I 9I 5K 6L 7L	
17AX4-GT	WG-313A	3C 5G 7A 8B 9M 8N 4M 2N 4L 6I 10I 1K 6L 9L	
17C5	WG-321A	1C 2D 3A 4B 5D 6E 7G 9M 8N 4M 2N 1L 9J 6I 10I 2K 6L 7L	
17H3	WG-313A	1C 3G 4A 5B 8G 9M 8N 4M 2N 4L 7I 10I 8K 6L 10L	
18A5	WG-313A	1D 2A 3C 5G 7B 8E 9M 8N 5M 3N 1L 10J 8I 10I 10K 6L 8L	
19BG6-G, -GA	WG-315A	2B 3C 5D 7A 8E 10G 9M 8N 5M 3N 1L 9J 6I 10I 10K 6L 8L	
19C8	WG-317A	(Card 1) 1G 2F 3C 4A 5B 6H 7C 9M 8N 4M 3N 3L 6I 10I 7K 6L 8L	DIODE SECTION, 1 OF 2 CARDS Test P1, P2, and P3 Reject if below 3
		(Card 2) 4A 5B 7C 8D 9G 9M 8N 4M 3N 1L 2J 6I 10I 8K	TRIODE SECTION, 2 OF 2 CARDS For gas test, see instructions
19J6	WG-321A	1F 2G 3A 4B 5D 6D 7C 9M 8N 5M 3N 1L 1J 7I 9I 4K 6L 7L	Test P1 and P2
19X8	WG-316A	(Card 1) 1C 4A 5B 6C 7D 8E 9G 9M 8N 5M 3N 1L 1J 6I 8I 6K 6L 7L	PENTODE SECTION, 1 OF 2 CARDS
		(Card 2) 2D 3G 4A 5B 6C 9M 8N 5M 3N 1L 1J 7I 9I 4K 6L 7L	TRIODE SECTION, 2 OF 2 CARDS
25AV5 -GTA	WG-317A	1D 2B 3C 4C 5G 6A 7A 8E 9M 8N 1M 5N 1L 10J 7I 9I 6K 6L 7L	
25C5	WG-311A	1C 2D 3A 4B 6E 7G 10M 8N 5M 1N 1L 9J 6I 10I 2K 6L 7L	
25CA5	WG-313A	1C 2D 3A 4B 5D 6E 7G 9M 8N 1M 5N 1L 7J 6I 10I 1K 6L 7L	
25CD6-GA, -GB	WG-310A	2A 3C 5D 7B 8E 10G 9M 8N 1M 5N 1L 10J 6I 7I 5K 6L 7L	
25CU6	WG-315A	2A 4E 5D 7B 8C 10G 9M 8N 1M 5N 1L 10J 8I 10I 5K 6L 7L	
25DQ6	WG-318A	2A 4E 5D 7B 8C 10G 9M 8N 1M 5N 1L 10J 7I 10I 5K 6L 7L	
25F5	WG-314A	1C 2D 3A 4B 5D 6E 7G 9M 8N 1M 5N 1L 9J 6I 10I 4K 6L 7L	
25W6-GT	WG-321A	2A 3G 4E 5D 7B 8C 9M 8N 1M 5N 1L 9J 6I 10I 1K 6L 7L	
25Z5	WG-318A	1A 2F 3C 4C 5G 6B 9M 8N 1M 5N 4L 6I 10I 7K 6L 10L	Test P1 and P2
25Z6,-GT	WG-312A	2A 3F 4C 5G 7B 8C 9M 8N 1M 5N 4L 6I 10I 7K 6L 10L	Test P1 and P2
26A6	WG-315A	1D 2C 3A 4B 5G 6E 7C 9M 8N 1M 5N 1L 1J 8I 10I 6K 6L 7L	
26A7-GT	WG-316A	1D 2C 3D 4G 5E 6A 7B 8F 10M 8N 3M 1N 2L 5J 6I 10I 1K	Test P1 and P2
26C6	WG-322A	(Card 1) 2C 3A 4B 5F 6G 10M 8N 4M 2N 3L 6I 10I 10K	DIODE SECTION, 1 OF 2 CARDS Test P1 and P2. Reject if below 2
		(Card 2) 1D 2C 3A 4B 7G 10M 8N 4M 2N 1L 6J 8I 10I 7K	TRIODE SECTION, 2 OF 2 CARDS
26D6	WG-322A	1D 2C 3A 4B 5G 6G 7G 10M 8N 4M 2N 1L 6J 6I 10I 7K 6L 7L	
28D7	WG-318A	1A 2D 3E 4F 5G 6C 7D 8B 10M 8N 3M 1N 2L 3J 6I 10I 2K	Test P1 and P2

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TUBE TYPE	INCLUDED IN ACCESSORY PACKAGE NO.	CARD DATA	
		Hole Locations	Notes
35A5	WG-317A	1A 2G 3E 6D 7C 8B 10M 8N 1M 5N 1L 9J 6I 10I 3K 6L 7L	
35B5	WG-315A	1D 2C 3A 4B 5G 6E 10M 8N 1M 5N 1L 9J 6I 10I 4K 6L 7L	
35Y4	WG-311A	1A 2G 7C 8B 10M 8N 1M 5N 4L 6I 10I 3K 6L 10L	Test P1 and P2
35Z3	WG-318A	1A 2G 7C 8B 10M 8N 2M 3N 4L 6I 10I 4K 6L 10L	
35Z4-GT	WG-314A	2A 5G 7B 8C 10M 8N 1M 5N 4L 6I 10I 3K 6L 10L	
35Z5-GT	WG-310A	2A 5G 7B 8C 10M 8N 1M 5N 4L 6I 10I 5K 6L 10L	Test P1 and P2
41	WG-320A	1A 2G 3E 4D 5C 6B 10M 9N 5M 2N 1L 9J 6I 10I 5K	
42	WG-319A	1A 2G 3E 4D 5C 6B 10M 9N 3M 1N 1L 9J 6I 10I 5K	
45	WG-316A	1B 2G 3D 4A 2M 4N 6M 6N 1L 10J 7K	
50A5	WG-311A	1A 2G 3E 6D 7C 8B 7M 6N 5M 5N 1L 9J 6I 10I 1K 6L 7L	
50B5	WG-311A	1D 2C 3A 4B 5G 6E 7M 6N 5M 5N 1L 9J 6I 10I 2K 6L 7L	
50C5	WG-310A	1C 2D 3A 4B 6E 7G 7M 6N 5M 5N 1L 9J 6I 10I 2K 6L 7L	
50L6-GT	WG-310A	2A 3G 4E 5D 7B 8C 7M 6N 5M 5N 1L 9J 6I 10I 7K 6L 8L	
50X6	WG-318A	1A 2C 3F 6G 7C 8B 7M 6N 5M 5N 4L 6I 10I 7K 6L 10L	Test P1 and P2
50Y6-GT	WG-317A	2A 3F 4C 5G 7B 8C 7M 6N 5M 5N 4L 6I 10I 7K 6L 10L	Test P1 and P2
50Y7-GT	WG-317A	2A 3F 4C 5G 7B 8C 7M 6N 5M 5N 4L 6I 10I 7K 6L 10L	Test P1 and P2
75	WG-319A	(Card 1) 1A 3F 4G 5C 6B 10M 9N 5M 2N 3L 10K	DIODE SECTION, 1 OF 2 CARDS Test P1 and P2. Reject if below 2
		(Card 2) 1A 2G 5C 6B 10D 10M 9N 5M 2N 1L 2J 6I 10I 9K	TRIODE SECTION, 2 OF 2 CARDS For gas test, see instructions
76	WG-322A	1A 2G 3D 4C 5B 10M 9N 5M 2N 1L 8J 6I 10I 8K	
78	WG-321A	1A 2G 3E 4C 5C 6B 10D 10M 9N 5M 2N 1L 2J 6I 10I 7K	
80	WG-313A	1B 2F 3G 4A 10M 9N 3M 1N 5L 5K 6L 10L	Test P1 and P2
84/6Z4	WG-321A	1A 2F 3G 4C 5B 10M 9N 5M 2N 4L 7K 6L 9L	Test P1 and P2
117L7/ M7-GT	WG-320A	(Card 1) 1C 2A 6G 7B 10M 6N 4M 2N 4L 6I 10I 4K 6L 10L	DIODE SECTION, 1 OF 2 CARDS
		(Card 2) 2A 3G 4D 5E 7B 8C 10M 6N 4M 2N 1L 8J 6I 10I 9K 6L 8L	PENTODE SECTION, 2 OF 2 CARDS
117N7-GT	WG-320A	2B 3G 4D 5E 6C 7A 8E 10M 6N 4M 2N 8J 4K 6L 9L	
117Z3	WG-311A	3A 4B 5G 6C 10M 6N 4M 2N 4L 6I 10I 7K 6L 10L	
117Z6-GT	WG-316A	2A 3F 4C 5G 7B 8C 10M 6N 4M 2N 4L 6I 10I 6K 6L 10L	Test P1 and P2

Note: When gas test reference is shown, consider the need for the special Leakage/Gas test.

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PRICE ONE DOLLAR

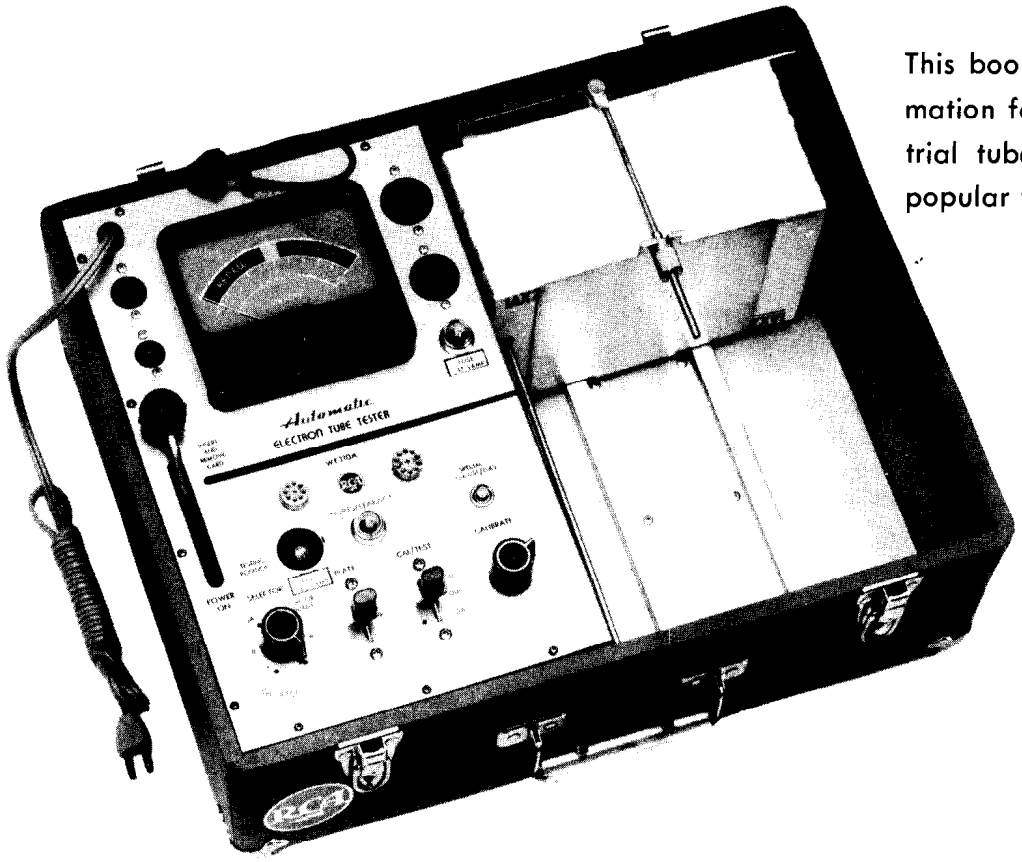
CARD PUNCH DATA

for

RCA WT-110A

AUTOMATIC ELECTRON-TUBE TESTER

JANUARY 1961



This booklet provides card-punching information for over 1,400 receiving and industrial tube types. It also includes data on popular foreign types in a separate listing.

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PREPARING NEW PUNCHED CARDS

To test tube-types not included in the card file, you can punch a new card quickly and easily. A master punch card (Stock No. 215426) is supplied with your WT-110A, and should be kept at the front of the card file in the instrument. In addition, you will need the package of unpunched cards (WG-325A), and the WG-326A card punch, also supplied with your instrument. A sharp pencil and a few paper clips round out the materials you will need. You can prepare a new card anywhere, in-or-away from the test bench, by carefully following the procedure outlined below:

1. Place the master punch card on top of a blank card, with the large hole in the blank card on the right-hand side.

2. Carefully line up the bottom edges and index slots of both cards. Fasten together with three or four paper clips (see fig. 2).

3. With a sharp-pointed pencil, inscribe only those holes called for in the hole punching instructions, marking through the hole in the master card and onto the blank card (see fig. 3).

4. Recheck the encircled holes with the hole-punching instructions for the particular tube-type.

5. Remove the paper clips and master punch card. Punch out all of the penciled circles on the blank card with the WG-326A accessory card punch (see fig. 4). Take care to center the penciled circles exactly in the die by sighting through the hole in the top of the punch.

6. With a lead pencil mark the tube-type number and testing instructions on the card. The lettering can be protected by spraying the finished card with a light coating of plastic.

You can add or remove cards from the WT-110A card file by unscrewing the file rod at the front of the case, and pushing the rod out through the rear eyelet. Insert the newly punched cards in their proper numerical-alphabetical order, and reinstall the rod.

Figure 1. Items required for preparing punched cards. Master Punched Card is furuished with the WT-110A.

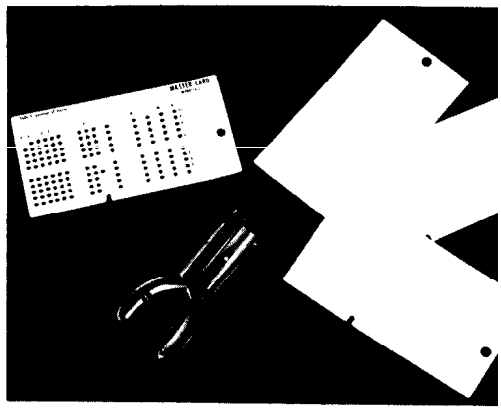

Figure 2. Line up index slots and bottoms of Master Punched Card and hlank card. Clip two cards together.

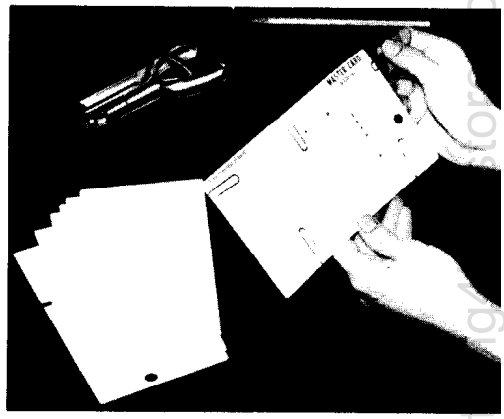

Figure 3. Use sharp-pointed pencil to inscribe hole outlines on blauk card.

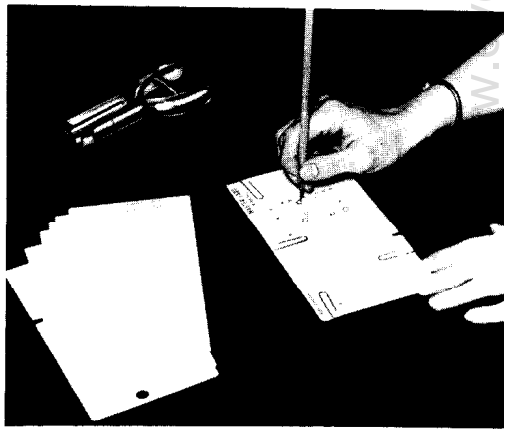

Figure 4. Center each penciled outline exactly in die on top of punch before punching hole.

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The card punch data is based upon the normal operation of each basic tube-type. Although various suffixes may appear after the basic tube designation, the electrical characteristics of the tube are basically the same, and the tube is to be tested using the test card for the basic tube-type. For example, a tube such as a 6AK5-W would be tested with a basic 6AK5 testing card.

TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
0A2	A8 G1 G5 K9 L1 L6 L9 M5 M10 N5 N7	Use WG-324A Adapter.
0A3	A8 D2 D4 D7 G5 K9 L1 L6 L9 M5 M9 N5 N8	Use WG-324A Adapter.
0B2	A8 G1 G5 K9 L1 L6 L9 M5 M10 N5 N8	Use WG-324A Adapter.
0B3 (VR90)	A8 D2 D4 D7 G5 K4 L1 L6 L8 M5 M10 N5 N8	Regulator Tube. Use WG-324A Adapter.
0C2	A8 G1 G5 K9 L1 L6 L9 M5 M9 N5 N8	Use WG-324A Adapter.
0C3	A8 D2 D4 D7 G5 K9 L1 L6 L9 M5 M10 N5 N8	G1 shows short. Use WG-324A Adapter.
0D3	A8 D2 D4 D7 G5 K9 L1 L6 L9 M5 M10 N5 N7	G1 shows short. WG-324A Adapter.
0G3 (85A2)	A8 G1 K2 L1 L6 L7 M5 M9 N5 N8	Regulator Tube. Use WG-324A Adapter.
0Z4	A4 B7 F3 G5 K5 L5 L6 L10 M5 M6 N1 N8	Test P1 and P2. Use WG-324A Adapter.
1A3	A1 B7 C3 G2 K10 L3 M3 M6 N5 N6	Reject if below 2.
1A5GT	A2 B7 D5 E4 G3 J6 K4 L1 M5 M6 N3 N6	
1A6	A6 B1 D4 D10 E5 G2 G3 J10 K7 L1 M3 M6 N2 N6	
1A7GT	A2 B1 B3 B6 B7 B10 D5 G4 J9 K6 L1 M5 M6 N3 N6	
1AB5	A1 B7 B8 D6 E3 G2 J3 K4 L1 M2 M6 N1 N6	
1AB6 (DK96)	A1 B4 B7 D6 E3 E5 G2 J6 K5 L1 M5 M6 N3 N6	
1AC6 (DK92)	A1 B4 B7 D6 E3 E5 G2 J7 K6 L1 M5 M6 N3 N6	
1AD4	A5 B3 D4 E2 G1 J7 K6 L5 M5 M6 N3 N6	
1AD5	A5 B4 D2 E8 G7 J6 K7 L1 M2 M6 N1 N6	Use WG-339A Adapter.
1AF4	A1 B7 D6 F3 G2 J6 K9 L1 L6 L7 M5 M6 N3 N6	
1AG4	A3 B5 D4 E2 G1 J10 K10 L5 M2 M6 N1 N6	
1AG5 Pentode Unit	A6 B4 D5 E2 G1 J7 K10 L5 M2 M6 N1 N6	Reject if below 3.
1AG5 Diode Unit	A6 B1 B2 B4 B5 G3 K10 L3 M2 M6 N1 N6	Reject if below 2.
1AH4	A5 B3 D4 E2 G1 J5 K8 L5 M5 M6 N3 N6	Depress Special Leakage/Gas Button in gas test.
1AH5 (DAF96) Pentode Unit	A7 B1 D6 E4 G5 J1 K9 L1 M5 M6 N3 N6	
1AH5 (DAF96) Diode Unit	A7 B1 G3 K10 L3 M5 M6 N3 N6	Reject if below 3.
1AJ4 (DF96)	A7 B1 D6 E3 G2 J4 K4 L1 M5 M6 N3 N6	
1AJ5 Diode Unit	A6 B4 G3 K10 L3 M5 M6 N3 N6	Reject if below 2.
1AJ5 Pentode Unit	A6 B4 D5 E2 G1 J8 K10 L5 M5 M6 N3 N6	
1AK4	A5 B3 D4 E2 G1 J5 K9 L5 M2 M6 N1 N6	
1AN5/DF97	A7 B1 B4 B5 D6 E3 G2 J2 K3 K4 L1 M5 M6 N3 N6	
1AX2	A2 B1 G10 K10 L5 M5 M6 N3 N6	Reject if below 2.
1B3GT	A7 B2 G10 K5 L5 M1 M6 N2 N6	Reject if below 3.

TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
1C5GT	A2 B7 D5 E4 G3 J9 K6 L5 M5 M6 N3 N6	
1C6	A6 B1 D4 D10 E5 G2 G3 J10 K10 L1 L6 L7 M3 M6 N2 N6	
1C7G	A2 B7 D5 D10 E4 G3 G6 J10 K10 L1 L6 L7 M3 M6 N2 N6	
1D7G	A2 B7 D5 D10 E4 G3 G6 J10 K8 L1 M3 M6 N2 N6	
1DN5 Pentode Unit	A7 B1 D6 E3 G2 J5 K8 L5 M5 M6 N3 N6	
1DN5 Diode Unit	A7 B1 G4 K7 L4 M5 M6 N3 N6	Reject if below 2.
1E5GP	A2 B7 D10 E4 G3 J10 K9 L1 M3 M6 N2 N6	
1E7GT	A2 B7 D4 D5 E8 F3 G6 J6 K7 L1 L6 L7 M3 M6 N2 N6	Test P1 and P2.
1E8	A5 B4 D2 D8 E7 G6 J1 K5 L5 M2 M6 N1 N6	Use WG-339A Adapter.
1F4	A1 B5 D3 E4 G2 J6 K7 L1 L6 L7 M3 M6 N2 N6	
1F5G	A2 B7 D5 E4 G3 J7 K6 L1 L6 L7 M3 M6 N2 N6	
1F6 Diode Unit	A1 B6 F5 G4 K10 L3 M3 M6 N2 N6	Test P1 and P2. Reject if below 2.
1F6 Pentode Unit	A1 B6 D10 E3 G2 J6 K3 L1 M3 M6 N2 N6	
1F7G Diode Unit	A2 B7 F4 G5 K5 L4 M3 M6 N2 N6	Test P1 and P2. Reject if below 2.
1F7G Pentode Unit	A2 B7 D10 E6 G3 J9 K5 L1 M3 M6 N2 N6	
1G3GT/1B3GT	Use 1B3GT Card.	
1G4GT	A2 B7 D5 G3 J9 K4 L1 M5 M6 N3 N6	
1G6GT	A2 B7 D4 D5 F3 G6 J2 K10 L5 M5 M6 N3 N6	Test P1 and P2.
1H2	A2 B9 G10 K10 L5 L6 L7 M5 M6 N3 N6	Reject if below 2.
1H5GT Diode Unit	A2 B1 B7 G5 K10 L3 M5 M6 N3 N6	Reject if below 2.
1H5GT Triode Unit	A2 B1 B7 D10 G3 J1 K10 L5 M5 M6 N3 N6	
1H6G Diode Unit 1	A2 B7 G5 K9 L3 M3 M6 N2 N6	Reject if below 3.
1H6G Diode Unit 2	A7 B2 G4 K9 L3 M3 M6 N2 N6	Reject if below 3.
1H6G Triode Unit	A2 B7 D6 G3 J5 K6 L1 M3 M6 N2 N6	Reject if below 3.
1J3	A7 B2 G10 K10 L5 M1 M6 N2 N6	Reject if below 3.
1J5G	A2 B7 D5 E4 G3 J10 K2 L1 M3 M6 N2 N6	
1J6G	A2 B7 D4 D5 F3 G6 J2 K2 L1 M3 M6 N2 N6	Test P1 and P2.
1K3	A7 B2 G10 K10 L5 M1 M6 N2 N6	Reject if below 3.
1L4	A1 B7 D6 E3 G2 J8 K6 L1 M5 M6 N3 N6	
1L6	A7 B1 D4 E3 G2 G5 G6 J6 K6 L1 M5 M6 N3 N6	
1LA4	A1 B8 D6 E3 G2 J7 K3 L1 M5 M6 N3 N6	
1LA6	A1 B8 D4 G2 G3 G5 G6 J7 K4 L1 M5 M6 N3 N6	
1LB4	A8 B1 D6 E3 G2 J2 K2 L1 M5 M6 N3 N6	

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
*1LC5	A1 B8 C4 D6 E3 G2 I6 I10 J3 K7 L5 M5 M6 N3 N6	
1LC6	A8 B1 D4 E3 G2 G5 G6 J4 K5 L1 M5 M6 N3 N6	
1LD5 Diode Unit	A1 B8 G4 K10 L3 M5 M6 N3 N6	Reject if below 1.
1LD5 Pentode Unit	A1 B8 D6 E3 G2 J6 K8 L1 M5 M6 N3 N6	
1LE3	A1 B8 D6 G2 J2 K3 L1 M5 M6 N3 N6	
1LG5	A1 B8 D6 E3 G2 J2 K6 L5 M5 M6 N3 N6	
1LH4 Diode Unit	A1 B8 G4 K10 L3 M5 M6 N3 N6	Reject if below 2.
1LH4 Triode Unit	A1 B8 D6 G2 J3 K10 L1 M5 M6 N3 N6	Depress Special Leakage/Gas Button in gas test.
1LN5	A1 B4 B5 B8 D6 E3 G2 J2 K7 L1 M5 M6 N3 N6	
1M3/DM70 Card 1	A4 B5 D1 G8 J1 L1 M5 M6 N3 N6	Eye tube—Full illumination. Use WG-339A Adapter.
1M3/DM70 Card 2	A4 B5 D1 G8 J10 L1 M5 M6 N3 N6	Eye tube—1/4" illumination. Use WG-339A Adapter.
1N2	A7 B2 G10 K5 L5 M1 M6 N2 N6	Reject if below 3.
1N3	Same as 1M3.	
1N5GT	A2 B1 B7 D10 E4 G3 J2 K7 L1 M5 M6 N3 N6	
1P5GT	A2 B7 D10 E4 G3 J3 K6 L1 M5 M6 N3 N6	
*1Q5GT	A2 B7 D5 E4 G3 I6 I10 J9 K5 L5 M5 M6 N3 N6	
1R4/1294	A1 B8 C7 G4 K10 L3 M5 M6 N3 N6	Reject if below 3.
1R5	A7 B1 B5 B6 D4 G2 G3 I6 I10 J6 K3 L1 M5 M6 N3 N6	
1S2 (DY87)	A9 B5 G10 K10 L4 M5 M6 N3 N6	Reject if below 4.
1S4	A7 B1 B5 D3 E4 G2 G6 J9 K5 L1 L6 L7 M5 M6 N3 N6	
1S5 Diode Unit	A7 B1 G3 K10 L3 M5 M6 N3 N6	Reject if below 2.
1S5 Pentode Unit	A7 B1 D6 E4 G5 I6 I10 J6 K10 L1 L6 L7 M5 M6 N3 N6	
1T4	A1 B7 D6 E3 G2 J8 K7 L1 M5 M6 N3 N6	
1T5GT	A2 B7 D5 E4 G3 J9 K1 L1 M5 M6 N3 N6	
1U4	A1 B7 D6 E3 G2 J6 K10 L1 M5 M6 N3 N6	
1U5 Diode Unit	A7 B1 G4 K10 L3 M5 M6 N3 N6	Reject if below 2.
1U5 Pentode Unit	A7 B1 D6 E3 G2 J5 K10 L1 L6 L7 M5 M6 N3 N6	
1U6	A7 B1 B6 D4 E5 G2 G3 J6 K8 L1 M5 M6 N3 N6	
1V	A1 B4 C3 G2 K5 L4 L6 L9 M5 M10 N2 N9	Reject if below 4.
1V2	A4 B5 G9 K9 L5 M4 M6 N5 N6	Reject if below 2.
1V6 Pentode Unit	A7 B4 B5 B6 D3 E2 G1 J6 K8 L5 M5 M6 N3 N6	
1V6 Triode Unit	A4 B1 B2 B3 B7 D5 G6 J8 K9 L5 M2 M6 N1 N6	

TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
1X2A, B	A2 B1 G10 K5 L5 M1 M6 N2 N6	Reject if below 3.
1Z2	A4 B5 G10 K10 L4 M5 M6 N3 N6	Reject if below 3.
2A3	A4 B1 D3 G2 J10 K4 L1 L6 L8 M5 M6 N2 N6	
2A5	A1 B6 C5 D4 E3 G2 J1 K4 L1 M4 M6 N2 N6	
2A6 Diode Unit	A1 B6 C5 F3 G4 I6 I10 K10 L3 M4 M6 N2 N6	Test P1 and P2. Reject if below 2.
2A6 Triode Unit	A1 B6 C5 D10 G2 I6 I10 J2 K8 L1 M4 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
2A7	A1 B7 C6 D5 D10 E3 G2 G4 I6 I10 J9 K9 L1 M4 M6 N2 N6	
2AF4A	A3 B4 C5 D2 G1 I8 I10 J1 K3 L1 L6 L7 M2 M6 N3 N6	
2B3	A2 B7 G10 I6 I10 K4 L5 M3 M6 N2 N6	Reject if below 4.
2B7 Diode Unit	A1 B7 C6 F5 G4 I6 I10 K10 L3 M4 M6 N2 N6	Test P1 and P2. Reject if below 2.
2B7 Pentode Unit	A1 B7 C6 D10 E3 G2 I6 I10 J6 K9 L1 M4 M6 N2 N6	
2BN4	A3 B4 C1 D2 G5 I7 I8 J1 K4 L1 L6 L7 M2 M6 N3 N6	
2C40	A2 B1 B7 C3 C5 C8 D6 G10 I7 I9 J1 K5 K6 L1 L6 L7 M5 M10 N2 N9	Connect grid ring to pin 6 of loctal socket with short clip lead. Connect cap lead to cap of tube.
2C51	Use 5670 Card.	
2CY5	A3 B4 C2 C7 D1 E6 G5 I7 I9 J1 K1 L1 L6 L7 M2 M6 N3 N6	
2E5 Eye Unit	A1 B6 C5 E4 F2 L1 M4 M6 N2 N6	Shadow Max.—P1. Shadow Min.—P2.
2E5 Triode Unit	A1 B6 C5 D3 G2 I6 I10 J6 K10 L1 M4 M6 N2 N6	
2E24	A2 A7 B1 B8 D5 E3 G10 J9 K8 L1 L6 L7 M2 M6 N4 N6	
2E26	A2 B7 B8 C1 D5 E3 G10 I6 I7 J8 K7 L1 L6 L7 M3 M10 N1 N9	
2E30	A3 A4 B2 B7 D1 E6 G5 J9 K4 L1 M2 M6 N4 N6	
2E31	A5 B3 D4 E2 G1 J8 K10 L5 M2 M6 N1 N6	Reject if below 2. Depress Special Leakage/Gas Button in gas test.
2E32	Use 2E31 Card.	
2E35	A5 B3 D4 E2 G1 J7 K10 L5 M2 M6 N1 N6	Reject if below 3.
2E36	Use 2E35 Card.	
2EA5	A3 B4 C2 D1 E6 G5 I7 I10 J1 K2 L1 L6 L7 M3 M6 N2 N6	
2EN5	A3 B4 C5 F2 G7 I6 I10 K7 L3 L6 L8 M3 M6 N2 N6	Test P1 and P2. Reject if below 4.
2ER5	A3 B4 B6 C1 C7 D2 G5 I6 I10 J2 K8 L1 L6 L8 M3 M6 N2 N6	
2EV5	A3 B4 C2 C7 D1 E6 G5 I8 I9 J1 K2 L1 L6 L7 M3 M6 N2 N6	
2FH5	A3 B4 B6 C1 C7 D2 G5 I8 I10 J1 K2 L1 L6 L7 M3 M6 N2 N6	
2FS5	A3 B4 B6 B7 D2 G5 J2 K3 L1 L6 L7 M3 M6 N2 N6	
2FV6	A3 B4 C2 C7 D1 E6 G5 I7 I10 J1 K2 L1 L6 L7 M3 M6 N2 N6	

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
2FY5	A3 B4 B6 C1 C7 D2 G5 I6 I10 J2 K10 L1 L6 L9 M3 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
2J2	A2 B9 G10 K10 L5 L6 L7 M3 M6 N2 N6	Reject if below 2.
2T4	A3 B4 C5 D2 G1 I8 I9 J1 K1 L1 L6 L7 M3 M6 N2 N6	
2V2	A2 B7 G10 K9 L5 L6 L7 M3 M6 N2 N6	Reject if below 2.
2V3	A2 B7 G10 K6 L5 M4 M6 N2 N6	Reject if below 3.
2X2A	A1 B4 G10 I6 I7 L5 L6 L7 M2 M6 N4 N6	Reject if below 4.
3A2	A1 B2 G10 K2 L5 M2 M6 N4 N6	Reject if below 3.
3A3	A2 B7 G10 K7 L5 M2 M6 N4 N6	Reject if below 4.
3A4	A5 B1 B7 D4 E3 G2 J9 K9 L1 L6 L8 M5 M6 N3 N6	
3A5	A4 B1 B7 D3 D5 F2 G6 J7 K8 L1 L6 L7 M5 M6 N3 N6	Test P1 and P2.
3A8GT Diode Unit	A2 B7 G8 K10 L3 M4 M6 N2 N6	Reject if below 3.
3A8GT Triode Unit	A2 B7 D5 G6 J2 K10 L1 M4 M6 N2 N6	
3A8GT Pentode Unit	A7 B2 D10 E4 G3 J2 K7 L1 M4 M6 N2 N6	
3AF4A	A3 B4 C5 D2 G1 I8 I10 J1 K3 L1 L6 L7 M2 M6 N4 N6	
3AJ8 Triode Unit	A4 B1 B2 B5 B6 B7 C3 D9 G8 I8 I10 J1 K7 L1 L6 L7 M5 M6 N2 N6	
3AJ8 Heptode Unit	A4 B5 B7 B8 B9 C3 D2 E1 G6 I6 I9 J4 K3 L1 M5 M6 N2 N6	
3AL5	A3 B4 C1 C5 F2 G7 I6 I10 K7 L3 L6 L8 M2 M6 N4 N6	Test P1 and P2. Reject if below 4.
3AU6	A3 B2 B4 C7 D1 E6 G5 I7 I9 J1 K6 L1 L6 L7 M2 M6 N4 N6	
3AV6 Diode Unit	A3 B4 C2 F5 G6 I6 I10 K7 L4 L6 L7 M2 M6 N4 N6	Test P1 and P2. Reject if below 4.
3AV6 Triode Unit	A3 B4 C2 D1 G7 I6 I10 J2 K8 L1 M2 M6 N4 N6	Depress Special Leakage/Gas Button in gas test.
3B2	A2 B7 G10 K9 L5 M4 M6 N2 N6	Reject if below 4.
3B4	A4 A5 B2 D3 E1 G7 J10 K7 L1 L6 L7 M2 M6 N1 N6	
3B7	A4 B1 B8 D3 D6 F7 G2 J1 K1 L1 M5 M6 N3 N6	Test P1 and P2.
3BA6	A3 B2 B4 C7 D1 E6 G5 I7 I10 J1 K6 L1 L6 L7 M2 M6 N4 N6	
3BC5	A3 B4 C2 C7 D1 E6 G5 I8 I10 J1 K6 L1 L6 L7 M2 M6 N4 N6	
3BE6	A3 B4 C2 C7 D1 G5 G6 I6 I10 J1 K3 L1 L6 L7 M2 M6 N4 N6	
3BN4	A3 B4 C1 D2 G5 I7 I8 J1 K4 L1 L6 L7 M2 M6 N4 N6	
3BN6	A3 B4 C1 D2 G5 G6 G7 J1 K8 L5 L6 L7 M2 M6 N4 N6	
3BU8	A4 B5 C1 C6 C9 D7 E2 F3 G8 I6 I10 J3 K7 L1 M2 M6 N4 N6	Test P1 and P2.
3BY6	A3 B4 C2 D1 D7 E6 G5 I6 I10 J5 K3 L1 M2 M6 N4 N6	
3BY7	A4 B5 C1 C3 C9 D2 E8 G7 I6 I7 J1 K6 L1 L6 L7 M2 M6 N4 N6	
*3BZ6	A3 B4 B7 C2 D1 E6 G5 I7 I10 J1 K3 K4 L1 L6 L7 M2 M6 N4 N6	

TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
3C2	A2 B7 G10 K1 L5 M2 M6 N4 N6	Reject if below 4.
3C4/DL96	A1 B7 D6 E3 G2 J9 K3 K4 L1 L6 L7 M4 M6 N2 N6	
3C6/XXB	A1 A8 B7 D4 D5 F3 G6 J2 K3 L1 M5 M6 N3 N6	Test P1 and P2.
3CB6	A3 B4 C2 C7 D1 E6 G5 I8 I9 J1 K9 L1 L6 L8 M2 M6 N4 N6	
3CE5	A3 B4 C2 C7 D1 E6 G5 I6 I7 J1 K9 L1 L6 L8 M2 M6 N4 N6	
3CF6	A3 B4 C2 C7 D1 E6 G5 I8 I9 J1 K9 L1 L6 L8 M2 M6 N4 N6	
3CS6	A3 B4 C2 D1 D7 E6 G5 I6 I10 J6 K5 L1 M2 M6 N4 N6	
3CS6 Grid 1 Test	A3 B4 B7 C2 D1 E6 G5 I6 I7 J1 K8 L1 M4 M6 N2 N6	Reject if below 4.
3CS6 Grid 3 Test	A3 B1 B4 C2 D7 E6 G5 I6 I7 J1 K10 L1 M4 M6 N2 N6	Reject if below 4.
3CY5	A3 B4 C2 C7 D1 E6 G5 I7 I9 J1 K1 L1 L6 L7 M2 M6 N4 N6	
3D6/1299	A1 A8 B7 D6 E3 G2 J7 K4 L1 L6 L7 M5 M6 N3 N6	
3DG4	A1 B3 F5 G7 K2 K3 L3 L6 L10 M4 M6 N1 N6	Test P1 and P2. Reject if below 4.
3DK6	A3 B4 C2 C7 D1 E6 G5 I7 I9 J1 K2 L1 L6 L7 M2 M6 N4 N6	
3DT6	A3 B4 C2 D1 D7 E6 G5 I6 I10 J4 K7 L1 M2 M6 N4 N6	Reject if below 3. Depress Special Leakage/Gas Button in gas test.
3EA5	A3 B4 C2 D1 E6 G5 I7 I10 J1 K2 L1 L6 L7 M4 M6 N2 N6	
3EJ7	A4 B5 C1 C6 C9 D2 E8 G7 I6 I10 J2 K4 L1 L6 L8 M4 M6 N2 N6	
3EH7	A4 B5 C1 C6 C9 D2 E8 G7 I6 I10 J4 K4 L1 L6 L8 M4 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
3ER5	A3 B4 B6 C1 C7 D2 G5 I6 I10 J2 K8 L1 L6 L8 M4 M6 N2 N6	
3ES5	A3 B4 B6 B7 D2 G5 J2 K3 L1 L6 L7 M4 M6 N2 N6	
3EV5	A3 B4 C2 C7 D1 E6 G5 I8 I9 J1 K2 L1 L6 L7 M4 M6 N2 N6	
3FH5	A3 B4 B6 C1 C7 D2 G5 I8 I10 J1 K2 L1 L6 L7 M4 M6 N2 N6	
3FY5	A3 B4 B6 C1 C7 D2 G5 I6 I10 J2 K10 L1 L6 L9 M4 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
3LF4	A1 A8 B7 D6 E3 G2 J9 K5 L1 L6 L7 M5 M6 N3 N6	
3Q4	A1 A7 B5 D3 E4 G2 G6 J9 K6 L1 L6 L7 M5 M6 N3 N6	
3Q5G	A7 B2 B8 D5 E4 G3 J9 K3 L1 M5 M6 N3 N6	
*3S4	A1 B7 D3 E4 G2 J10 K4 L1 M2 M6 N4 N6	
3V4	A1 A7 B5 D6 E3 G2 J9 K6 L1 L6 L7 M5 M6 N3 N6	
4AU6	A3 B4 C2 C7 D1 E6 G5 I7 I9 J1 K6 L1 L6 L7 M1 M6 N4 N6	
4BA6	A3 B4 C2 C7 D1 E6 G5 I6 I10 J2 K6 L1 L6 L7 M4 M6 N1 N6	
4BC5	A3 B4 C2 C7 D1 E6 G5 I6 I7 J1 K5 L1 L6 L7 M1 M6 N4 N6	

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
4BC8	A4 B5 B9 C3 C8 D2 D7 F1 G6 I8 I9 J1 K4 L1 L6 L7 M1 M6 N4 N6	Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
4BE6	A3 B4 C2 C7 D1 G5 G6 I6 I10 J1 K3 L1 L6 L7 M1 M6 N4 N6	
4BL8 Triode Unit	A4 B5 C8 D9 G1 I6 I10 J4 K5 L1 L6 L7 M5 M6 N1 N6	
4BL8 Pentode Unit	A4 B5 C7 D2 E3 G6 I6 I10 J2 K4 L1 L6 L7 M5 M6 N1 N6	
4BN4	A3 B4 C1 C6 D2 G5 I7 I8 J1 K4 L1 L6 L7 M4 M6 N1 N6	
4BN6	A3 B4 C1 D2 G5 G6 G7 J1 K8 L5 L6 L7 M1 M6 N4 N6	
4BQ7A	A4 B5 B9 C3 C8 D2 D7 F1 G6 I7 I8 J1 K9 L1 L6 L8 M1 M6 N4 N6	Test P1 and P2. Special Leakage Test.
4BS8	A4 B5 B9 C3 C8 D2 D7 F1 G6 I8 I9 J1 K3 L1 L6 L7 M1 M6 N4 N6	Test P1 and P2. Special Leakage Test.
4BU8	A4 B5 C1 C6 C9 D7 E2 F3 G8 I6 I10 J3 K7 L1 M1 M6 N4 N6	Test P1 and P2.
4BX8	A4 B5 B9 C3 C8 D2 D7 F1 G6 I6 I10 J4 K2 L1 L6 L7 M1 M6 N4 N6	Test P1 and P2. Special Leakage Test.
4BY6	A3 B4 C2 D1 D7 E6 G5 I6 I10 J5 K8 L1 L6 L7 M1 M6 N4 N6	
*4BZ6	A3 B4 B7 C2 D1 E6 G5 I7 I10 I1 K3 K4 L1 L6 L7 M1 M6 N4 N6	
4BZ7	A4 B5 B9 C3 C8 D2 D7 F1 G6 I8 I9 J1 K4 L1 L6 L7 M1 M6 N4 N6	Test P1 and P2. Special Leakage Test.
4BZ8	A4 B5 C3 C8 D2 D7 F1 G6 I7 I9 J1 K2 L1 L6 L7 M4 M6 N1 N6	Test P1 and P2. Special Leakage Test.
4CB6	A3 B4 C2 C7 D1 E6 G5 I6 I8 J1 K9 L1 L6 L8 M1 M6 N4 N6	
4CE5	A3 B4 C7 D1 E6 G5 I6 I7 J1 K9 L1 L6 L8 M4 M6 N1 N6	
*4CS6	A3 B4 B7 C2 D1 G5 G6 I6 I10 J7 K8 L1 L6 L7 M1 M6 N4 N6	
*4CS6 Grid 1 Test	A3 B4 B7 C2 D1 E6 G5 I6 I7 J1 K8 L1 M4 M6 N1 N6	Reject if below 4.
4CS6 Grid 3 Test	A3 B1 B4 C2 D7 E6 G5 I6 I7 J1 K10 L1 M4 M6 N1 N6	Reject if below 4.
4CY5	A3 B4 C2 C7 D1 E6 G5 I7 I9 J1 K1 L1 L6 L7 M2 M6 N5 N6	
4DE6	A3 B4 C2 C7 D1 E6 G5 I6 I7 J1 K5 L1 L6 L7 M1 M6 N5 N6	
4DK6	A3 B4 C2 C7 D1 E6 G5 I7 I10 J1 K7 L1 L6 L8 M4 M6 N1 N6	
4DT6	A3 B4 C2 D1 D7 E6 G5 I6 I10 J4 K7 L1 M1 M6 N4 N6	Reject if below 3. Depress Special Leakage/Gas Button in gas test.
4EH7	A4 B5 C1 C6 C9 D2 E8 G7 I6 I10 J4 K4 L1 L6 L8 M1 M6 N4 N6	Depress Special Leakage/Gas Button in gas test.
4EJ7	A4 B5 C1 C6 C9 D2 E8 G7 I6 I10 J2 K4 L1 L6 L8 M1 M6 N4 N6	
4ES8	A4 B5 C3 C8 D2 D7 F1 G6 I6 I8 J1 K2 L1 L6 L7 M4 M6 N1 N6	Test P1 and P2. Special Leakage Test.
4EW6	A3 B4 B7 C2 D1 E6 G5 I7 I9 J1 K7 L1 L6 L8 M1 M6 N4 N6	Depress Special Leakage/Gas Button in gas test.

TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
4GM6	A3 B4 C2 C7 D1 E6 G5 I7 I10 J1 K6 K7 L1 L6 L8 M4 M6 N1 N6	
5A6	A4 B5 C3 C8 D7 E6 G1 J10 K9 L1 L6 L8 M1 M6 N5 N6	
5AM8 Diode Unit	A4 B5 C7 G8 K8 L3 L6 L8 M1 M6 N5 N6	Reject if below 3.
5AM8 Pentode Unit	A4 B5 C1 C9 D2 E3 G6 I6 I8 J1 K4 L1 L6 L7 M1 M6 N5 N6	
5AN8 Pentode Unit	A4 B5 C9 D8 E7 G6 I6 I7 J1 K9 L1 L6 L8 M1 M6 N5 N6	
5AN8 Triode Unit	A4 B5 C3 D2 G1 I6 I8 J6 K3 L1 M1 M6 N5 N6	
5AQ5	A3 B4 C2 D1 E6 G5 I6 I10 J8 K8 L1 L6 L7 M1 M6 N5 N6	
5AR4	A2 B8 F4 G6 K6 L4 L6 L10 M5 M10 N2 N9	Test P1 and P2. Reject if below 4.
5AS4	A2 B8 F6 G4 K1 L5 L6 L10 M3 M10 N1 N9	Test P1 and P2. Reject if below 4.
5AS8 Diode Unit	A4 B5 C8 G6 I6 I10 K3 L3 L6 L7 M1 M6 N5 N6	Reject if below 2.
5AS8 Pentode Unit	A4 B5 C3 C7 D2 E1 G9 I6 I7 J1 K9 L1 L6 L8 M1 M6 N5 N6	
5AT8 Pentode Unit	A4 B5 C3 C8 D9 E7 G6 I6 I7 J1 K6 L1 L6 L7 M1 M6 N5 N6	
5AT8 Triode Unit	A4 B5 C3 D1 G2 I7 I9 J1 K4 L1 L6 L7 M1 M6 N5 N6	
5AU4	A2 B8 F4 G6 K1 L5 L6 L10 M4 M10 N2 N9	Test P1 and P2. Reject if below 4.
5AV8 Pentode Unit	A4 B5 C7 D6 E8 G9 I6 I7 J1 K4 L1 L6 L7 M1 M6 N5 N6	
5AV8 Triode Unit	A4 B5 C1 D2 G3 I6 I10 J6 K8 L1 L6 L7 M1 M6 N5 N6	
5AW4	A2 B8 F4 G6 K1 L5 L6 L10 M4 M10 N2 N9	Test P1 and P2. Reject if below 4.
5AZ4	A2 B8 F4 G6 K7 L5 L6 L10 M3 M10 N1 N9	Test P1 and P2. Reject if below 4.
5B8 Pentode Unit	A4 B5 C1 C2 C7 D6 E8 G9 I6 I7 J1 K9 L1 L6 L8 M1 M6 N5 N6	
5B8 Triode Unit	A4 B5 C1 D2 G3 I6 I10 J6 K8 L1 L6 L7 M1 M6 N5 N6	
5BE8 Pentode Unit	A4 B5 C3 C8 D9 E7 G6 I7 I10 J1 K9 L1 L6 L8 M1 M6 N5 N6	
5BE8 Triode Unit	A4 B5 C3 D1 G2 I7 I10 J1 K2 L1 L6 L7 M1 M6 N5 N6	
5BK7A	A4 B5 C3 C8 C9 D2 D7 F1 G6 I7 I10 J1 K1 L1 L6 L7 M1 M6 N5 N6	Test P1 and P2. Special Leakage Test.
5BQ7A	A4 B5 B9 C3 C8 D2 D7 F1 G6 I7 I8 J1 K9 L1 L6 L8 M1 M6 N5 N6	Test P1 and P2. Special Leakage Test.
5BR8 Pentode Unit	A4 B5 C8 D9 E7 G6 I7 I10 J1 K9 L1 L6 L8 M1 M6 N5 N6	
5BR8 Triode Unit	A4 B5 C3 D1 G2 I7 I10 J1 K2 L1 L6 L7 M1 M6 N5 N6	
5BS8	A4 B5 C3 C8 D2 D7 F1 G6 I7 I8 J1 K4 L1 L6 L7 M1 M6 N5 N6	Test P1 and P2.
5BT8 Diode Unit	A4 B5 C3 F1 G2 K9 L3 M1 M6 N5 N6	Test P1 and P2. Reject if below 4.
5BT8 Pentode Unit	A4 B5 C9 D8 E7 G6 I6 I7 J1 K9 L1 L6 L8 M1 M6 N5 N6	
5BW8 Pentode Unit	A4 B5 C7 D6 E8 G9 I7 I10 J1 K6 L1 L6 L7 M5 M6 N1 N6	

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
5BW8 Diode Unit	A4 B5 C2 F1 G3 I6 I10 K7 L3 L6 L8 M5 M6 N1 N6	Test P1 and P2. Reject if below 4.
5BZ7	A4 B5 B9 C3 C8 D7 F1 G6 I7 I8 J1 K4 L1 L6 L7 M4 M10 N1 N9	Test P1 and P2.
5CG4	A2 B8 F4 G6 K6 L5 L6 L10 M5 M10 N2 N9	Test P1 and P2. Reject if below 4.
5CG8 Pentode Unit	A4 B5 C8 D9 E7 G6 I6 I10 J2 K9 L1 L6 L8 M1 M6 N5 N6	
5CG8 Triode Unit	A4 B5 C3 D1 G2 I7 I9 J1 K4 L1 L6 L7 M1 M6 N5 N6	
5CL8 Tetrode Unit	A4 B5 C8 D9 E7 G6 I6 I10 J2 K3 L1 L6 L7 M1 M6 N5 N6	
5CL8 Triode Unit	A4 B5 C3 D1 G2 I6 I10 J2 K1 L1 L6 L7 M1 M6 N5 N6	
5CM6 Pentode Unit	A4 B5 C3 D2 E7 G6 I7 I10 J1 K3 L1 L6 L7 M5 M6 N1 N6	
5CM8 Pentode Unit	A4 B5 C3 D2 E7 G6 I6 I7 J1 K9 L1 L6 L8 M1 M6 N5 N6	
5CM8 Triode Unit	A4 B5 C8 D9 G1 I6 I10 J2 K6 L1 M1 M6 N5 N6	Depress Special Leakage/Gas Button in gas test.
5CQ8 Tetrode Unit	A4 B5 C7 D2 E3 G6 I6 I10 J2 K4 L1 L6 L7 M1 M6 N5 N6	
5CQ8 Triode Unit	A4 B5 C8 D9 G1 I7 I10 J1 K1 L1 L6 L7 M1 M6 N5 N6	
5CR8 Triode Unit	A4 B5 C8 D9 G1 I6 I10 J4 K10 L1 L6 L8 M5 M6 N1 N6	
5CR8 Pentode Unit	A4 B5 C3 D2 E7 G6 I7 I10 J1 K3 L1 L6 L7 M5 M6 N1 N6	
5CU4	A2 B8 C1 F4 G6 I6 I10 K4 L4 L6 L10 M4 M10 N2 N9	Test P1 and P2. Reject if below 4.
5CZ5	A4 B5 C7 C8 D3 D6 E1 G9 I6 I10 J8 K1 L1 M1 M6 N5 N6	
5DB5	A2 B8 F4 G6 K1 L5 L6 L10 M4 M10 N2 N9	Test P1 and P2. Reject if below 4.
5DH8 Triode Unit	A4 B5 C3 D1 G2 J1 K6 L1 L6 L7 M4 M10 N1 N9	
5DH8 Pentode Unit	A4 B5 C3 C8 D9 E7 G6 I7 I10 J1 K7 K8 L1 L6 L8 M4 M10 N1 N9	
5DJ4	Use 5U4 Data.	
5EA8 Pentode Unit	A4 B5 C7 D2 E3 G6 I6 I10 J2 K3 L1 L6 L7 M5 M10 N1 N9	
5EA8 Triode Unit	A4 B5 C8 D9 G1 I6 I9 J1 K1 L1 L6 L7 M5 M10 N1 N9	
5EH8 Pentode Unit	A4 B5 C1 C6 D7 E8 G9 I6 I10 J2 K4 L1 L6 L7 M5 M10 N1 N9	
5EH8 Triode Unit	A4 B5 C1 C6 D2 G3 I6 I10 J2 K8 L1 L6 L8 M5 M10 N1 N9	
5ES8	A4 B5 C3 C8 D2 D7 F1 G6 I6 I8 J1 K2 L1 L6 L7 M4 M10 N1 N9	Test P1 and P2.
5EU8 Triode Unit	A4 B5 C6 D2 G3 I8 I10 J1 K3 L1 L6 L7 M5 M6 N1 N6	
5EU8 Pentode Unit	A4 B5 C8 D7 E9 G1 I7 I9 J1 K4 L1 6L L7 M5 M6 N1 N6	
5FG7 Pentode Unit	A4 B5 C8 D9 E7 G6 I6 I10 J2 K4 L1 L6 L7 M5 M6 N1 N6	
5FG7 Triode Unit	A4 B5 C3 D1 G2 I6 I10 J2 K3 L1 L6 L8 M5 M6 N1 N6	

TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
5FV8 Triode Unit	A4 B5 C3 D1 G2 I7 I9 J1 K1 L1 L6 L7 M5 M6 N1 N6	
5FV8 Pentode Unit	A4 B5 C8 D9 E7 G6 I7 I10 J1 K3 L1 L6 L7 M5 M6 N1 N6	
5GH8 Triode Unit	A4 B5 C8 D9 G1 I8 I10 J1 K3 L1 L6 L7 M5 M6 N1 N6	
5GH8 Pentode Unit	A4 B5 C7 D2 E3 G6 I8 I10 J1 K5 L1 L6 L7 M5 M6 N1 N6	
5GM6	A3 B4 C2 C7 D1 E6 G5 I7 I10 J1 K6 K7 L1 L6 L8 M4 M10 N1 N9	
5J6	A3 B4 C7 D5 D6 F1 G2 I7 I9 J1 K5 L1 L6 L7 M1 M6 N5 N6	Test P1 and P2.
5R4GY	A2 B8 F6 G4 K4 L5 L6 L10 M5 M10 N2 N9	Test P1 and P2. Reject if below 4.
5T4	A2 B1 B8 F6 G4 K1 L5 L6 L10 M3 M10 N1 N9	Test P1 and P2. Reject if below 4.
5T8 Diode Unit	A4 B5 C3 C7 F2 G6 H1 I6 I10 K7 L3 L6 L8 M1 M6 N5 N6	Test P1, P2 and P3. Reject if below 4.
5T8 Triode Unit	A4 B5 C7 D8 G9 I6 I10 J2 K8 L1 M1 M6 N5 N6	Depress Special Leakage/Gas Button in gas test.
5U4G, GB	A2 B8 F4 G6 K1 L5 L6 L10 M4 M10 N2 N9	Test P1 and P2. Reject if below 4.
5U8 Pentode Unit	A4 B5 C7 D2 E3 G6 I7 I10 J1 K6 L1 L6 L7 M1 M6 N5 N6	
5U8 Triode Unit	A4 B5 C8 D9 G1 I6 I9 J1 K3 L1 L6 L7 M1 M6 N5 N6	
5V3	A2 B8 F4 G6 I7 I10 K9 L4 L6 L10 M3 M10 N2 N9	Test P1 and P2. Reject if below 4.
5V4G	A2 B8 F4 G6 I6 I10 K7 L4 L6 L10 M5 M10 N2 N9	Test P1 and P2. Reject if below 4.
5V6GT	A2 B7 C8 D5 E4 G3 I6 I7 J1 K1 L1 M1 M6 N5 N6	
5W4	A2 B8 F4 G6 K6 L5 L6 L10 M5 M10 N2 N9	Test P1 and P2. Reject if below 4.
5X4G	A7 B8 F3 G5 K2 L5 L6 L10 M4 M10 N2 N9	Test P1 and P2. Reject if below 4.
5X8 Pentode Unit	A4 B5 C1 C6 D7 E8 G9 I6 I7 J1 K6 L1 L6 L7 M1 M6 N5 N6	
5X8 Triode Unit	A4 B5 C6 D2 G3 I7 I9 J1 K4 L1 L6 L7 M1 M6 N5 N6	
5Y3G, GT	A2 B8 F4 G6 K6 L5 L6 L10 M5 M10 N2 N9	Test P1 and P2. Reject if below 4.
5Y4G, GT	A7 B8 F3 G5 K7 L5 L6 L10 M5 M10 N2 N9	Test P1 and P2. Reject if below 4.
5Z3	A1 B4 F2 G3 K3 L5 L6 L10 M4 M10 N2 N9	Test P1 and P2. Reject if below 4.
5Z4	A2 B1 B8 F4 G6 K8 L4 L6 L10 M5 M10 N2 N9	Test P1 and P2. Reject if below 4.
6A3	A1 B4 D3 G2 J10 K4 L1 L6 L8 M4 M10 N2 N9	
6A6	A1 B7 C4 D3 D5 F2 G6 I6 I10 J4 K7 L1 M3 M10 N1 N9	Test P1 and P2.
6A7, S	A1 B7 C6 D5 G2 G3 G4 G10 I6 I10 J7 K9 L1 L6 L7 M5 M10 N2 N9	
6A8, G, GT	A2 B1 B7 B8 D5 G3 G4 G6 G10 I6 I10 J7 K9 L1 L6 L7 M5 M10 N2 N9	
6AB4	A4 B2 B3 C7 D6 G1 J1 K6 L1 L6 L7 M5 M10 N2 N9	

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
6AB5/6N5	A1 B6 C5 D3 E4 G2 I6 I10 J2 K10 L1 M5 M10 N2 N9	Triode Test—P1. Shadow Min.—P1. Shadow Max.—P2.
6AB7/1853	A2 B1 B3 B7 C5 D4 E6 G8 I6 I10 J3 K6 L1 L6 L7 M5 M10 N2 N9	
6AB8/ECL80 Triode Unit	A4 B5 C3 D2 G1 I6 I10 J5 K7 L1 M5 M10 N2 N9	
6AB8/ECL80 Pentode Unit	A4 B5 B7 C3 D9 E8 G6 I6 I10 J7 K1 K2 L1 M5 M10 N2 N9	
6AC5G, GT	A2 B7 C8 D5 G3 I7 I9 J1 K9 L1 M3 M10 N1 N9	
6AC7	A2 B1 B7 C3 C5 D4 E6 G8 I8 I10 J1 K2 L1 L6 L7 M5 M10 N2 N9	
6AD4	A3 B6 C5 D1 G8 J1 K5 L1 M5 M10 N2 N9	
6AD7G Pentode Unit	A2 B7 C8 D5 E4 G3 I6 I10 J9 K6 L1 M3 M10 N1 N9	
6AD7G Triode Unit	A2 B7 C8 D1 G6 I6 I10 J1 K10 L1 M3 M10 N1 N9	
6AF3	A4 B5 C10 G9 I6 I10 K5 L4 L6 L10 M4 M10 N1 N9	
6AF4, A	A3 B4 C5 D2 G1 I8 I10 J1 K3 L1 L6 L7 M5 M10 N2 N9	
6AF6	A2 B7 C8 E5 G3 G4 L1 M5 M10 N2 N9	P1—Eyes closed. P2 and P3—Eyes open. No meter reading.
6AG5	A3 B4 C2 C7 D1 E6 G5 I6 I7 J1 K5 L1 L6 L7 M5 M10 N2 N9	
6AG6G/EL33	A2 B7 C8 D5 E4 G3 I6 I10 J4 K1 L1 L6 L7 M4 M10 N2 N9	
6AG7	A7 B1 B2 B3 C5 D4 E6 G8 I6 I10 J4 K6 L1 L6 L8 M5 M10 N2 N9	
6AH4GT	A7 B2 C8 D1 G5 J9 K6 L1 L6 L7 M5 M10 N2 N9	
6AH6	A4 B2 B3 C7 D1 E6 G5 I7 I9 J1 K1 L1 L6 L7 M5 M10 N2 N9	
6AJ4	A7 B8 C2 D1 D3 D4 D6 D9 G5 I7 I10 J1 K1 L1 L6 L7 M5 M10 N2 N9	
6AJ5	A3 B4 C2 C7 D1 E6 G5 J1 K8 L2 M5 M10 N2 N9	
6AJ8/ECH81 Triode Unit	A4 B1 B2 B5 B6 B7 C3 D9 G8 I8 I10 J1 K7 K8 L1 L6 L7 M5 M10 N2 N9	
6AJ8/ECH81 Heptode Unit	A4 B5 B7 B8 B9 C3 D2 E1 G6 I6 I9 J4 K3 L1 M5 M10 N2 N9	
6AK4	A3 B6 C5 D1 G8 I6 I10 J7 K2 L1 M5 M10 N2 N9	
6AK5	A3 B4 C2 C7 D1 E6 G5 I8 I9 J1 K5 L1 L6 L7 M5 M10 N2 N9	
6AK6	A3 B4 C2 C7 D1 E6 G5 I6 I10 J8 K5 L1 M5 M10 N2 N9	
***6AK8/EABC80 Triode Unit**	A4 B5 C7 D8 G9 J2 K7 K8 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
***6AK8/EABC80 Diode Unit 1**	A4 B5 C3 C7 G6 I6 I10 K8 L3 M5 M10 N2 N9	Test P1 only. Reject if below 1.
***6AK8/EABC80 Diode Unit 2**	A4 B5 C3 C7 F2 H1 I6 I10 K7 L3 L6 L8 M5 M10 N2 N9	Test P2 and P3 only. Reject if below 3.
6AL5	A3 B4 C1 C5 F2 G7 I6 I10 K7 L3 L6 L8 M5 M10 N2 N9	Test P1 and P2. Reject if below 4.
6AM4	A7 B8 C2 D1 D3 D4 D6 D9 G5 I7 I10 J1 K1 L1 L6 L7 M5 M10 N2 N9	
6AM5/EL91	A3 B4 C2 D1 E7 G5 I6 I10 J7 K2 L1 M5 M10 N2 N9	
6AM6/EF91	A3 B4 C2 C6 D1 E7 G5 I7 I10 J1 K4 L1 L6 L7 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6AM8, A Diode Unit	A4 B5 C7 G8 I6 I10 K7 L4 L6 L10 M5 M10 N2 N9	
6AM8, A Pentode Unit	A4 B5 C1 C9 D2 E3 G6 I8 I10 J1 K3 L1 L6 L7 M5 M10 N2 N9	
6AN4	A3 B4 C5 D2 G1 G7 I7 I10 J1 K1 L1 L6 L7 M5 M10 N2 N9	
6AN5	A3 B4 C2 C7 D1 E6 G5 I6 I10 J8 K2 L1 L6 L7 M5 M10 N2 N9	
6AN6 Diode Unit	A7 B1 C6 F2 G3 K7 L3 M5 M10 N2 N9	Test P1 and P2. Reject if below 3.
6AN6 Triode Unit	A7 B1 C6 F4 G5 K7 L3 M5 M10 N2 N9	Test P1 and P2. Reject if below 3.
6AN8 Pentode Unit	A4 B5 C9 D8 E7 G6 I6 I7 J1 K4 L1 L6 L7 M5 M10 N2 N9	
6AN8 Triode Unit	A4 B5 C3 D2 G1 I6 I10 J6 K3 L1 M5 M10 N2 N9	
6AQ4/EC91	A3 B4 C2 D1 G7 I7 I9 J1 K3 L1 L6 L7 M5 M10 N2 N9	
6AQ5, A	A3 B4 C2 D1 E6 G5 I6 I10 J8 K8 L1 L6 L7 M5 M10 N2 N9	
6AQ6 Diode Unit	A3 B4 C2 F6 G5 I6 I10 K7 L4 L6 L7 M5 M10 N2 N9	Test P1 and P2. Reject if below 3.
6AQ6 Triode Unit	A3 B4 C2 D1 G7 I6 I10 J2 K8 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6AQ7GT Diode Unit	A7 B8 C2 F1 G3 I6 I10 K10 L3 L6 L7 M5 M10 N2 N9	Test P1 and P2. Reject if below 1.
6AQ7GT Triode Unit	A7 B8 C6 D4 G5 I6 I10 J2 K8 L1 M5 M10 N2 N9	
6AQ8 (ECC85)	A4 B5 C3 C8 D2 D7 F1 G6 I6 I7 J1 K5 L1 L6 L7 M5 M10 N2 N9	Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
6AR5	A3 B4 C2 D1 E6 G5 I6 I10 J9 K5 L1 M5 M10 N2 N9	
6AR6	A6 B8 C1 D7 E5 G3 I8 I9 J9 K7 L1 L6 L7 M4 M10 N2 N9	
6AR8	A4 B5 C7 G1 G2 G3 G6 G8 G9 K2 L3 M5 M10 N2 N9	Emission and short test only. Reject if below 4.
6AS5	A3 B4 C1 D2 E6 G7 I9 I10 J1 K5 L1 L6 L7 M5 M10 N2 N9	
***6AS6**	A3 B4 C2 C7 D1 E6 G5 I6 I10 J4 K1 L1 M5 M10 N2 N9	
6AS6 Grid 3 Test	A3 B1 B4 C2 D7 E6 G5 J2 K9 K10 L1 M5 M10 N2 N9	
6AS7G	A7 B8 C3 C6 D1 D4 F2 G5 J1 K1 L5 L6 L9 M3 M10 N2 N9	Test P1 and P2.
6AS8 Diode Unit	A4 B5 C8 G6 I6 I10 K3 L3 L6 L7 M5 M10 N2 N9	Reject if below 4.
6AS8 Pentode Unit	A4 B5 C3 C7 D2 E1 G9 I6 I7 J1 K9 L1 L6 L8 M5 M10 N2 N9	
6AT6 Diode Unit	A3 B4 C2 F5 G6 I6 I10 K7 L4 L6 L7 M5 M10 N2 N9	Test P1 and P2. Reject if below 4.
6AT6 Triode Unit	A3 B4 C2 D1 G7 I6 I10 J2 K8 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6AT8, A Pentode Unit	A4 B5 C3 C8 D9 E7 G6 I6 I7 J1 K6 L1 L6 L7 M5 M10 N2 N9	
6AT8, A Triode Unit	A4 B5 C3 D1 G2 I7 I9 J1 K4 L1 L6 L7 M5 M10 N2 N9	

** Indicates corrected punch data. Discard any punch information published previously on this tube-type.*

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
6AU4GT, GTA	A7 B8 C3 G5 I6 I10 K4 L4 L6 L10 M4 M10 N2 N9	Reject if below 4.
6AU5GT	A2 B7 C3 D1 E8 G5 I6 I9 J10 K6 L1 L6 L7 M4 M10 N2 N9	
6AU6	A3 B4 C2 C7 D1 E6 G5 I7 I9 J1 K6 L1 L6 L7 M5 M10 N2 N9	
6AU7	A4 B5 C3 C8 D2 D7 F1 G6 I6 I10 J5 K4 L1 M5 M10 N2 N9	Test P1 and P2.
6AU8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K8 L1 L6 L8 M5 M10 N2 N9	
6AU8 Triode Unit	A4 B5 C1 D2 G3 I8 I9 J1 K6 L1 L6 L7 M5 M10 N2 N9	
6AV5GA, GT	A2 B7 C3 D1 E8 G5 I7 I9 J10 K6 L1 L6 L7 M4 M10 N2 N9	
6AV6 Diode Unit	A3 B4 C2 F5 G6 I6 I10 K7 L4 L6 L7 M5 M10 N2 N9	Test P1 and P2. Reject if below 4.
6AV6 Triode Unit	A3 B4 C2 D1 G7 I6 I10 J2 K8 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6AW8, A Pentode Unit	A4 B5 C6 D7 E8 G9 I6 I7 J1 K2 L1 L6 L7 M5 M10 N2 N9	
6AW8, A Triode Unit	A4 B5 C1 D2 G3 I6 I10 J2 K10 L1 L6 L8 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6AX4GT	A7 B8 C3 G5 I6 I10 K1 L4 L6 L9 M4 M10 N2 N9	Reject if below 3.
6AX5GT	A2 B7 C8 F3 G5 I6 I10 K6 L5 L6 L10 M4 M10 N2 N9	Test P1 and P2. Reject if below 4.
6AX8 Pentode Unit	A4 B5 C7 D2 E3 G6 I8 I10 J1 K6 L1 L6 L7 M5 M10 N2 N9	
6AX8 Triode Unit	A4 B5 C8 D9 G1 I7 I10 J1 K2 L1 L6 L7 M5 M10 N2 N9	
6AZ8 Pentode Unit	A4 B5 C3 D6 E2 G1 I6 I7 J1 K5 L1 L6 L7 M5 M10 N2 N9	
6AZ8 Triode Unit	A4 B5 C7 D9 G8 I6 I10 J6 K8 L1 L6 L7 M5 M10 N2 N9	
6B4G	A2 B7 D5 G3 J10 K4 L1 L6 L8 M3 M10 N1 N9	
6B6G Diode Unit	A2 B1 B7 C8 F4 G5 K10 L3 M5 M10 N2 N9	Test P1 and P2. Reject if below 2.
6B6G Triode Unit	A2 B1 B7 C8 D10 G3 I6 I10 J2 K9 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6B7/6B7S Diode Unit	A1 B7 C6 F4 G5 I6 I10 K10 L3 M5 M10 N2 N9	Use WG-337A-7 Adapter Test P1 and P2. Reject if below 2.
6B7/6B7S Pentode Unit	A1 B7 C6 D10 E3 G2 I6 I10 J5 K8 L1 M5 M10 N2 N9	Use WG-337A-7 Adapter.
6B8, G Diode Unit	A2 B1 B7 C8 F4 G5 I6 I10 K10 L3 M5 M10 N2 N9	Test P1 and P2. Reject if below 2.
6B8, G Pentode Unit	A2 B1 B7 C8 D10 E6 G3 I6 I10 J5 K8 L1 M5 M10 N2 N9	
6BA5	A3 B6 C8 D1 E7 G5 J1 K4 L1 M5 M10 N2 N9	
6BA6	A3 B4 C2 C7 D1 E6 G5 I6 I10 J2 K6 L1 L6 L7 M5 M10 N2 N9	
6BA7	A4 B5 C3 D2 G1 G6 G7 G9 I6 I10 J1 K1 L1 L6 L7 M5 M10 N2 N9	
6BA8A Triode Unit	A4 B5 C1 D2 G3 I6 I10 J7 K4 L1 M5 M10 N2 N9	
6BA8A Pentode Unit	A4 B5 C6 D7 E8 G9 I6 I7 J1 K2 L1 L6 L7 M5 M10 N2 N9	
6BC4	A4 B5 C6 D2 G1 I8 I10 J1 K1 L1 L6 L7 M5 M10 N2 N9	
6BC5	A3 B4 C2 C7 D1 E6 G5 I6 I7 J1 K6 L1 L6 L7 M5 M10 N2 N9	
6BC7	A4 B5 C1 C7 C9 F6 G8 H2 I6 I10 K6 L3 L6 L8 M5 M10 N2 N9	Test P1, P2 and P3. Reject if below 4.
6BC8	A4 B5 C3 C8 C9 D2 D7 F1 G6 I6 I7 J1 K9 L1 L6 L8 M5 M10 N2 N9	Test P1 and P2. Special Leakage Test.
6BD5GT	A2 B7 C3 D1 E8 G5 I6 I10 J8 K7 L1 L6 L7 M3 M10 N1 N9	
6BD6	A3 B4 C2 C7 D1 E6 G5 I6 I10 J2 K3 L1 M5 M10 N2 N9	
6BE6	A3 B4 C2 C7 D1 G5 G6 I6 I10 J1 K3 L1 L6 L7 M5 M10 N2 N9	
6BE7/EQ80	A4 B5 C3 C8 C9 D2 D7 E1 G6 J2 K9 L1 M5 M10 N2 N9	
6BE8/FCF80 Triode Unit	A4 B5 C8 D9 G1 I6 I10 J4 K5 L1 L6 L7 M5 M10 N2 N9	
6BE8/FCF80 Pentode Unit	A4 B5 C7 D2 E3 G6 I6 I10 J2 K4 L1 L6 L7 M5 M10 N2 N9	
6BF5	A3 B4 C2 D1 E6 G5 I6 I10 J9 K2 L1 L6 L7 M4 M10 N2 N9	
6BF6 Diode Unit	A3 B4 C2 F5 G6 I6 I10 K7 L4 L6 L7 M5 M10 N2 N9	Test P1 and P2. Reject if below 3.
6BF6 Triode Unit	A3 B4 C2 D1 G7 I6 I10 J7 K8 L1 M5 M10 N2 N9	
6BF7	A3 B6 C4 C5 D2 D7 F1 G8 I7 I9 J1 K5 L1 L6 L7 M5 M10 N2 N9	Test P1 and P2.
6BG6G	A2 B7 C3 D5 E8 G10 I6 I10 J9 K10 L1 L6 L8 M5 M10 N2 N9	
6BG7	A3 B6 C4 C5 D2 D7 F1 G8 I8 I10 J1 K5 L1 L6 L7 M5 M10 N2 N9	Test P1 and P2.
6BH6	A3 B4 C2 C7 D1 E6 G5 I6 I10 J2 K7 L1 L6 L7 M5 M10 N2 N9	
6BH8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K3 L1 L6 L7 M5 M10 N2 N9	
6BH8 Triode Unit	A4 B5 C1 D2 G3 I6 I10 J7 K3 L1 M5 M10 N2 N9	
6BJ6	A3 B4 C2 C7 D1 E6 G5 I6 I10 J2 K7 L1 L6 L7 M5 M10 N2 N9	
6BJ7	A4 B3 B5 C1 C7 C9 F6 G8 H2 I6 I10 K7 K8 L3 L6 L8 M5 M10 N2 N9	Test P1, P2 and P3. Reject if below 4.
6BJ8 Diode Unit	A4 B5 C2 C3 F1 G6 I6 I10 K7 L3 L6 L8 M5 M10 N2 N9	Test P1 and P2. Reject if below 3.
6BJ8 Triode Unit	A4 B5 C9 D8 G7 I6 I10 J7 K5 L1 M5 M10 N2 N9	
6BK4	A2 B7 C1 G5 G10 K9 L3 M5 M10 N2 N9	Emission Test only. Reject if below 4.
6BK5	A4 B5 C6 D3 E8 G1 I6 I10 J5 K3 L1 L6 L7 M4 M10 N2 N9	
6BK7A	A4 B5 C3 C8 C9 D2 D7 F1 G6 I7 I10 J1 K1 L1 L6 L7 M5 M10 N2 N9	Test P1 and P2. Special Leakage Test.
6BL4	A7 B8 C3 G5 I6 I10 K2 L4 L6 L10 M3 M10 N2 N9	Reject if below 4.
6BL7GT	A7 B8 C3 C6 D1 D4 F2 G5 I6 I10 J7 K6 L1 L6 L7 M4 M10 N2 N9	Test P1 and P2.
6BM8 (ECL82) Triode Unit	A4 B5 C8 D1 G9 J2 K7 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
6BM8 (ECL82) Pentode Unit	A4 B5 C2 D3 E7 G6 I6 I7 J1 K4 L1 L6 L7 M5 M10 N2 N9	
6BN4	A3 B4 C1 C6 D2 G5 I7 I8 J1 K4 L1 L6 L7 M5 M10 N2 N9	
6BN5 (EL85)	A4 B5 C3 C6 D1 E9 G7 J1 K2 L1 M5 M10 N2 N9	
6BN6	A3 B4 C1 D2 G5 G6 G7 J1 K8 L5 L6 L7 M5 M10 N2 N9	
6BN8 Diode Unit	A4 B5 C2 C3 F1 G6 I6 I10 K4 L3 I6 L7 M5 M10 N2 N9	Test P1 and P2. Reject if below 3.
6BN8 Triode Unit	A4 B5 C9 D8 G7 I6 I10 J2 K7 L1 L6 L7 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6BQ5/EL84	A4 B5 C3 D2 E9 G7 I6 I10 J6 K7 L1 L6 L8 M3 M10 N1 N9	
6BQ6GT, GTB/6CU6	A2 B7 C8 D5 E4 G10 I8 I10 J10 K5 L1 L6 L7 M4 M10 N2 N9	
6BQ7A	A4 B5 B9 C3 C8 D2 D7 F1 G6 I7 I8 J1 K9 L1 L6 L8 M5 M10 N2 N9	Test P1 and P2. Special Leakage Test.
6BR5/EM80	A4 B5 C2 D1 E3 E8 E9 G7 I6 I10 J2 K9 L1 M5 M10 N2 N9	Amp. Sec. Test on P1 Position. Shadow Min.—P1 Position. Shadow Max.—P2 or P3 Position.
6BR8A Pentode Unit	A4 B5 C8 D9 E7 G6 I7 I10 J1 K9 L1 L6 L8 M5 M10 N2 N9	
6BR8A Triode Unit	A4 B5 C3 D1 G2 I6 I9 J1 K2 L1 L6 L7 M5 M10 N2 N9	
6BS8	A4 B5 C3 C8 D2 D7 F1 G6 I7 I8 J1 K4 L1 L6 L7 M5 M10 N2 N9	Test P1 and P2. Special Leakage Test.
6BT4/EZ40	A1 B8 C7 F2 G6 I6 I10 K6 L5 L6 L10 M5 M10 N2 N9	Test P1 and P2. Reject if below 4. Use Special Adapter.
6BT8 Pentode Unit	A4 B5 C9 D8 E7 G6 I6 I7 J1 K9 L1 L6 L8 M5 M10 N2 N9	
6BT8 Diode Unit	A4 B5 C3 F1 G2 K9 L3 M5 M10 N2 N9	Test P1 and P2. Reject if below 4.
6BU8	A4 B5 C1 C6 C9 D7 E2 F3 G8 I6 I10 J3 K7 L1 M5 M10 N2 N9	Test P1 and P2.
6BV8 Diode Unit	A4 B5 C7 C8 F9 G6 K7 L3 L6 L8 M5 M10 N2 N9	Test P1 and P2. Reject if below 3.
6BV8 Triode Unit	A4 B5 C1 D2 G3 J3 K1 L1 M5 M10 N2 N9	
6BW4	A4 B5 C9 F1 G7 I6 I10 K5 L5 L6 L10 M5 M10 N2 N9	Test P1 and P2. Reject if below 4.
6BW8 Pentode Unit	A4 B5 C7 D6 E8 G9 I7 I10 J1 K6 L1 L6 L7 M5 M10 N2 N9	
6BW8 Diode Unit	A4 B5 C2 F1 G3 I6 I10 K7 L3 L6 L8 M5 M10 N2 N9	Test P1 and P2. Reject if below 3.
6BX4	A3 B4 C7 F1 G6 K6 L5 L6 L10 M5 M10 N2 N9	Test P1 and P2. Reject if below 4.
6BX6/EF80	A4 B5 C1 C3 C6 C9 D2 E8 G7 I6 I10 J2 K2 L1 L6 L7 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6BX7GT	A7 B8 C3 C6 D1 D4 F2 G5 J5 K5 L1 L6 L7 M4 M10 N2 N9	Test P1 and P2.
6BY5GA	A2 B7 C1 C8 F4 G5 I6 I10 K3 L4 L6 L9 M4 M10 N2 N9	Test P1 and P2. Reject if below 4.
6BY6	A3 B4 C2 D1 D7 E6 G5 I6 I10 J5 K8 L1 L6 L7 M5 M10 N2 N9	
6BY7 (EF85)	A4 B5 C1 C3 D2 E8 G7 I6 I7 J1 K6 L1 L6 L7 M5 M10 N2 N9	
6BY8 Diode Unit	A4 B5 C3 G6 I6 I10 K7 L3 L6 L8 M5 M10 N2 N9	Reject if below 4.
6BY8 Pentode Unit	A4 B5 C2 C9 D1 E8 G7 I7 I9 J1 K6 L1 L6 L7 M5 M10 N2 N9	
***6BZ6**	A3 B4 B7 C2 D1 E6 G5 I7 I10 J1 K3 K4 L1 L6 L7 M5 M10 N2 N9	
6BZ7	A4 B5 B9 C3 C8 D2 D7 F1 G6 I7 I8 J1 K4 L1 L6 L7 M5 M10 N2 N9	Test P1 and P2. Special Leakage Test.
6BZ8	A4 B5 B9 C3 C8 D2 D7 F1 G6 I7 I9 J1 K2 L1 L6 L7 M5 M10 N2 N9	Test P1 and P2. Special Leakage Test.
6C4	A3 B4 C7 D6 G1 I6 I10 J1 K1 L1 M5 M10 N2 N9	
6C5, GT	A7 B1 B2 C8 D5 G3 I6 I10 J6 K6 L1 M5 M10 N2 N9	
6C6	A1 B6 C4 C5 D10 E3 G2 I6 I10 J6 K8 L1 M5 M10 N2 N9	
6C8G	A2 B7 C4 C8 D5 D10 F3 G6 I6 I10 J4 K7 K8 L1 M5 M10 N2 N9	Test P1 and P2.
6CA4 (EZ81)	A4 B5 C3 F7 G1 I6 I10 K7 L4 L6 L10 M5 M10 N2 N9	Test P1 and P2. Reject if below 4.
6CA5	A3 B4 C1 D2 D5 E6 G7 I6 I10 J5 K1 L1 L6 L7 M3 M10 N1 N9	
6CA7/EL34	A2 B1 B7 C8 D5 E4 G3 I6 I10 J8 K7 L1 L6 L8 M4 M10 N2 N9	
6CB5, A	A2 B7 C3 D4 E1 G10 I8 I9 J10 K3 L1 L6 L7 M3 M10 N2 N9	
6CB6, A	A3 B4 C2 C7 D1 E6 G5 I6 I7 J1 K9 L1 L6 L8 M5 M10 N2 N9	
6CD6G, GA	A2 B7 C3 D5 E8 G10 I6 I7 J10 K5 L1 L6 L7 M3 M10 N2 N9	
6CD7/EM34	A2 B7 C8 D4 E5 F6 G3 J3 K10 L1 M5 M10 N2 N9	P1—meas. Gm—one eye open, one closed. P2—other eye open—second closed. P3—both eyes open. Depress Special Leakage/Gas Button in gas test.
6CE5	A3 B4 C2 C7 D1 E6 G5 I6 I7 J1 K9 L1 L6 L8 M5 M10 N2 N9	
6CF6	A3 B4 C2 C7 D1 E6 G5 I6 I8 J1 K9 L1 L6 L8 M5 M10 N2 N9	
6CF8/EF86/ 6267	A4 B5 C3 C8 D9 E1 G6 I6 I10 J3 K5 L1 M5 M10 N2 N9	
***6CG7**	A4 B5 C3 C8 D2 D7 F1 G6 I6 I10 J3 K1 L1 M5 M10 N2 N9	Test P1 and P2.
6CG8A Pentode Unit	A4 B5 C3 C8 D9 E7 G6 I7 I8 J1 K6 L1 L6 L7 M5 M10 N2 N9	
6CG8A Triode Unit	A4 B5 C3 D1 G2 I7 I9 J1 K3 L1 L6 L7 M5 M10 N2 N9	
6CH6/EL822	A4 B5 C3 C9 D2 E8 G7 I6 I10 J4 K6 L1 L6 L8 M3 M10 N1 N9	
6CH8 Pentode Unit	A4 B5 C6 D7 E3 G2 I7 I8 J1 K9 L1 L6 L8 M5 M10 N2 N9	
6CH8 Triode Unit	A4 B5 C1 D8 G9 I6 I10 J6 K8 L1 L6 L7 M5 M10 N2 N9	
6CJ5/EF41	A1 B8 C3 C7 D6 E5 G2 I6 I10 J4 K2 L1 M5 M10 N2 N9	Use Special Adapter.

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
6CJ6/EL81	A4 B5 C3 C9 D2 E8 G10 I6 I10 J10 K2 L1 L6 L7 M3 M10 N1 N9	
6CK4	A2 B7 C8 D1 G5 I6 I10 J10 K6 K7 L1 L6 L7 M4 M10 N2 N9	
6CK5/EL41	A1 B8 C3 C7 D6 E5 G2 I6 I10 J6 K8 L1 L6 L8 M3 M10 N1 N9	Use Special Adapter.
6CK6/EL83	A4 B5 B8 C3 C6 D2 E1 G7 I6 I10 J2 K6 L1 L6 L8 M3 M10 N1 N9	
6CL5	A2 B7 C3 D4 E8 G10 I6 I7 J1 K5 L1 L6 L7 M4 M10 N2 N9	
6CL6	A4 B5 C1 C7 D2 E3 G6 I6 I10 J4 K6 L1 L6 L8 M5 M10 N2 N9	
6CL8A Tetrode Unit	A4 B5 C8 D9 E7 G6 I6 I10 J2 K3 L1 L6 L7 M5 M10 N2 N9	
6CL8A Triode Unit	A4 B5 C3 D1 G2 I6 I10 J2 K1 L1 L6 L7 M5 M10 N2 N9	
6CM5/EL36	A2 B7 C8 D5 E4 G10 I6 I10 J10 K7 L1 L6 L8 M4 M10 N2 N9	
6CM6	A4 B5 C7 D3 E1 G9 I6 I10 J8 K8 L1 L6 L7 M5 M10 N2 N9	
6CM7 Triode Unit 1	A4 B5 C3 D7 G6 I6 I10 J6 K5 L1 M5 M10 N2 N9	
6CM7 Triode Unit 2	A4 B5 C9 D8 G1 I6 I10 J6 K7 L1 L6 L7 M5 M10 N2 N9	
6CM8 Pentode Unit	A4 B5 C3 C8 D2 E7 G6 I6 I7 J1 K9 L1 L6 L8 M5 M10 N2 N9	
6CM8 Triode Unit	A4 B5 C8 D9 G1 I6 I10 J2 K7 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6CN6	Use EL38 Data.	
6CN7 Diode Unit	A4 B5 C3 F1 G2 K7 L3 L6 L8 M5 M10 N2 N9	Test P1 and P2. Reject if below 3.
6CN7 Triode Unit	A4 B5 C6 D7 G8 I6 I10 J2 K7 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6CQ4	A7 B8 C3 G5 I6 I10 K4 L4 L6 L10 M4 M10 N2 N9	Reject if below 4.
6CQ6/EF92	A3 B4 C2 C6 D1 E7 G5 I6 I10 J3 K4 L1 M5 M10 N2 N9	
*__6CQ8__ Tetrode Unit	A4 B5 C7 D2 E3 G6 I6 I10 J2 K4 L1 L6 L7 M5 M10 N2 N9	
*__6CQ8__ Triode Unit	A4 B5 C8 D9 G1 I7 I10 J1 K2 L1 L6 L7 M5 M10 N2 N9	
6CR6 Diode Unit	A3 B4 C1 G2 K10 L3 M5 M10 N2 N9	Reject if below 3.
6CR6 Pentode Unit	A3 B4 C1 D7 E6 G5 I6 I10 J4 K4 L1 M5 M10 N2 N9	
6CR8 Triode Unit	A4 B5 C8 D9 G1 I6 I10 J4 K10 L1 L6 L8 M3 M10 N1 N9	
6CR8 Pentode Unit	A4 B5 C3 D2 E7 G6 I7 I10 J1 K3 L1 L6 L7 M3 M10 N1 N9	
*__6CS6__	A3 B4 B7 C2 D1 G5 G6 I6 I10 J7 K8 L1 L6 L7 M5 M10 N2 N9	
*__6CS6__ Grid 1 Test	A3 B4 B7 C2 D1 E6 G5 I6 I7 J1 K8 L1 M5 M10 N2 N9	Reject if below 4.
6CS6 Grid 3 Test	A3 B1 B4 C2 D7 E6 G5 I6 I7 J1 K10 L1 M5 M10 N2 N9	Reject if below 4.
6CS7 Triode Unit 1	A4 B5 C8 D7 G6 I6 I10 J6 K6 L1 M5 M10 N2 N9	
6CS7 Triode Unit 2	A4 B5 C9 D3 G1 I6 I10 J7 K1 L1 M5 M10 N2 N9	

TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
6CT7/EAF42 Diode Unit	A1 B8 C7 G3 K9 L3 M5 M10 N2 N9	Use Special Adapter. Reject if below 3.
6CT7/EAF42 Pentode Unit	A1 B8 C7 D6 E5 G2 I6 I10 J3 K3 L1 M5 M10 N2 N9	Use Special Adapter.
6CU5	A3 B4 C1 D2 D5 E6 G7 I6 I10 J9 K2 L1 L6 L7 M4 M10 N2 N9	
6CU6, 6BQ6GT, GTB	A2 B7 C8 D5 E4 G10 I8 I10 J10 K5 L1 L6 L7 M4 M10 N2 N9	
*__6CU8__ Pentode Unit	A4 B5 C1 C6 D7 E3 G2 I7 I8 J1 K9 L1 L6 L8 M5 M10 N2 N9	
6CU8 Triode Unit	A4 B5 C1 D8 G9 I6 I10 J6 K8 L1 L6 L7 M5 M10 N2 N9	
6CV7/EBC41 Diode Unit	A1 B8 C7 F6 G5 K2 K3 L4 M5 M10 N2 N9	Use Special Adapter. Test P1 and P2. Reject if below 4.
6CV7/EBC41 Triode Unit	A1 B8 C7 D3 G2 J2 K8 L1 M5 M10 N2 N9	Use Special Adapter. Depress Special Leakage/Gas Button in gas test.
6CW4	A3 B1 B5 C2 D6 G4 I6 I8 J1 K1 K2 L1 L6 L7 M5 M10 N2 N9	Use Nuvistor Adapter WG-340A.
6CW5 (EL86)	A4 B5 C3 D2 E9 G7 I6 I10 J9 K6 L1 L6 L8 M5 M10 N2 N9	
6CW7/ECC84	A4 B5 C1 C7 C8 D2 D6 F3 G9 I6 I10 J3 K2 L1 L6 L7 M5 M10 N2 N9	Test P1 and P2.
6CX8 Triode Unit	A4 B5 B6 B7 B8 B9 C1 D2 G3 I6 I7 J1 K6 K7 L1 L6 L7 M3 M10 N1 N9	
6CX8 Pentode Unit	A4 B1 B2 B3 B5 C6 D7 E8 G9 I7 I10 J1 K7 L1 L6 L8 M3 M10 N1 N9	
6CY5	A3 B4 C2 C7 D1 E6 G5 I7 I9 J1 K1 L1 L6 L7 M5 M10 N2 N9	
6CY7 Triode Unit 1	A4 B5 C8 D7 G6 I6 I10 J2 K7 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6CY7 Triode Unit 2	A4 B5 C9 D3 G1 J9 K6 L1 L6 L7 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6CZ5	A4 B5 C7 D3 E1 G9 I9 I10 J1 K7 L1 L6 L7 M5 M10 N2 N9	
6D6	A1 B6 C4 C5 D10 E3 G2 I6 I10 J6 K7 L1 M5 M10 N2 N9	
6D7	A1 B7 C4 C6 D10 E3 G2 I6 I10 J6 K8 L1 M5 M10 N2 N9	Use WG-337A-7 Adapter.
6D8G	A2 B7 C8 D5 G3 G4 G6 G10 I6 I10 J7 K9 L1 L6 L7 M5 M10 N2 N9	
6DA4	A7 B8 C3 G5 I6 I10 K4 L4 L6 L10 M4 M10 N1 N9	Reject if below 3.
6DA5/EM81	A4 B5 C2 D1 E9 G7 J4 K9 K10 L1 M5 M10 N2 N9	P1—Test Gm—eye closed. P2 and P3, eye open.
6DA6/EF89	A4 B5 B9 C3 D2 E8 G7 I6 I10 J4 K6 K7 L1 L6 L7 M5 M10 N2 N9	
6DB5	A4 B5 C2 D3 E1 G9 I6 I7 J1 K8 L1 L6 L8 M3 M10 N1 N9	
6DB6	A3 B4 C2 D1 D7 E6 G5 I6 I10 J3 K2 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6DC6	A3 B4 C2 C7 D1 E6 G5 I6 I7 J1 K5 L1 L6 L7 M5 M10 N2 N9	

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6DC8/EBF89 Diode Unit	A4 B5 C3 F7 G8 I6 I10 K2 L4 M5 M10 N2 N9	Test P1 and P2. Reject if below 4.
6DC8/EBF89 Pentode Unit	A4 B5 B9 C3 D2 E1 G6 I6 I10 J4 K6 K7 L1 L6 L7 M5 M10 N2 N9	
6DE4	A7 B8 C3 G5 I6 I10 K7 L4 L6 L10 M4 M10 N2 N9	Reject if below 4.
6DE6	A3 B4 C2 C7 D1 E6 G5 I6 I7 J1 K5 L1 L6 L7 M5 M10 N2 N9	
6DE7 Triode Unit 1	A4 B5 C8 D7 G6 I6 I10 J7 K10 L1 L6 L7 M4 M10 N2 N9	
6DE7 Triode Unit 2	A4 B5 C9 D2 G1 I6 I10 J10 K9 L1 L6 L8 M4 M10 N2 N9	
6DG6GT	A2 B7 C8 D5 E4 G3 I6 I10 J9 K1 L1 L6 L7 M4 M10 N2 N9	
***6DJ8 (ECC88)**	A4 B5 C3 C8 D2 D7 F1 G6 I9 I10 J1 K1 L1 L6 L7 M5 M10 N2 N9	Test P1 and P2. Special Leakage Test.
6DK6	A3 B4 C2 C7 D1 E6 G5 I7 I10 J1 K7 L1 L6 L8 M4 M10 N2 N9	
6DL5/EL95	A3 B4 C2 D1 E6 G5 I6 I10 J6 K5 K6 L1 L6 L7 M5 M10 N2 N9	
6DN6	A7 B1 B2 C3 D5 E8 G10 I8 I10 J10 K3 L1 L6 L7 M3 M10 N2 N9	
6DN7 Triode Unit 1	A8 B7 C6 D4 G5 I6 I10 J6 K5 L1 M3 M10 N1 N9	
6DN7 Triode Unit 2	A8 B7 C3 D1 G2 I6 I10 J8 K7 L1 L6 L7 M3 M10 N1 N9	
6DQ5	A2 B7 C3 D1 E4 G10 I6 I8 J10 K4 L1 L6 L7 M4 M10 N2 N9	
6DQ6A	A7 B2 C8 D5 E4 G10 I7 I10 J10 K5 L1 L6 L7 M4 M10 N2 N9	
6DR7 Triode Unit 1	A4 B5 C8 D7 G6 J1 K6 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6DR7 Triode Unit 2	A4 B5 C9 D2 G1 J7 K6 L1 L6 L7 M5 M10 N2 N9	
6DR8/EBF83 Diode Unit	A4 B5 C3 F7 G8 I6 I10 K2 L4 M5 M10 N2 N9	Test P1 and P2. Reject if below 4.
6DR8/EBF83 Pentode Unit	A4 B5 B9 C3 D2 E1 G6 J1 K10 L2 M5 M10 N2 N9	Reject if below 2.5. Depress Special Leakage/Gas Button in gas test.
6DS5	A3 B4 C2 D1 E6 G5 I7 I9 J1 K4 L1 L6 L7 M5 M10 N2 N9	
6DS8/ECH83 Triode Unit	A4 B5 C3 D9 G8 J1 K8 L2 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6DS8/ECH83 Heptode Unit	A4 B5 C3 D2 D7 E1 G6 J1 K8 K9 L2 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6DT5	A4 B5 C7 D3 E1 G9 I6 I10 J9 K6 L1 L6 L7 M4 M10 N2 N9	
6DT6	A3 B4 C2 D1 D7 E6 G5 I6 I10 J4 K7 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6DT8	A4 B5 C3 C8 D2 D7 F1 G6 J1 K6 L1 L6 L7 M5 M10 N2 N9	Test P1 and P2. Special Leakage Test
6DW5	A4 B5 C7 D3 D6 E1 G9 I6 I10 J8 K1 L1 L6 L7 M4 M10 N2 N9	
6DZ7	A2 B7 C8 D1 D5 E4 F3 G6 I6 I10 J5 K1 L1 L6 L7 M3 M10 N1 N9	Test P1 and P2.
6DZ8 Triode Unit	A4 B5 C8 D1 G9 I6 I9 J3 K8 L1 M5 M10 N2 N9	
6DZ8 Pentode Unit	A4 B5 C2 D3 E7 G6 I8 I9 J2 K4 L1 L6 L7 M5 M10 N2 N9	
6E5	A1 B6 C5 D3 E4 G2 I6 I10 J2 K9 L1 M5 M10 N2 N9	Triode Test—P1. Shadow Min.—P1. Shadow Max.—P2.
6EA5	A3 B4 C2 D1 E6 G5 I7 I10 J1 K2 L1 L6 L7 M5 M10 N2 N9	
6EA7 Triode Unit 1	A7 B8 C6 D4 G5 J2 K10 L1 L6 L7 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6EA7 Triode Unit 2	A7 B8 C3 D1 G2 J8 K6 L1 L6 L7 M5 M10 N2 N9	
6EA8 Triode Unit	A4 B5 C8 D9 G1 I6 I9 J1 K1 L1 L6 L7 M5 M10 N2 N9	
6EA8 Pentode Unit	A4 B5 C7 D2 E3 G6 I6 I10 J2 K3 L1 L6 L7 M5 M10 N2 N9	
6EB5	A3 B4 C1 C5 C6 F2 G7 I6 I10 K6 K7 L3 M5 M10 N2 N9	Test P1 and P2. Reject if below 4.
6EB8 Triode Unit	A4 B5 C1 D2 G3 J1 K4 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6EB8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I10 J1 K7 L1 L6 L8 M5 M10 N2 N9	
6EF6	A2 B7 C8 D5 E4 G3 I6 I10 J9 K6 L1 L6 L7 M5 M10 N2 N9	
6EH5	A3 B4 C1 D2 E6 G7 I7 I10 J1 K6 L1 L6 L8 M5 M10 N2 N9	
6EH7	A4 B5 C1 C6 D2 D9 E8 G7 I6 I10 J4 K4 L1 L6 L8 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6EH8 Pentode Unit	A4 B5 C1 C6 D7 E8 G9 I6 I10 J2 K4 L1 L6 L7 M3 M10 N1 N9	
6EH8 Triode Unit	A4 B5 C1 C6 D2 G3 I6 I10 J2 K8 L1 L6 L8 M3 M10 N1 N9	
6EJ7	A4 B5 C1 C6 C9 D2 E8 G7 I6 I10 J2 K4 L1 L6 L8 M5 M10 N2 N9	
6EM5	A4 B5 C7 D3 D6 E1 G9 I6 I8 J1 K6 L1 L6 L7 M5 M10 N2 N9	
6EM7 Triode Unit 1	A7 B8 C6 D4 G5 I6 I10 J2 K6 K7 L1 M3 M10 N1 N9	Depress Special Leakage/Gas Button in gas test.
6EM7 Triode Unit 2	A7 B8 C3 D1 G2 I6 I10 J10 K4 L1 L6 L7 M3 M10 N1 N9	
6EQ7 Pentode Unit	A4 B1 B5 B9 C3 D2 E6 G7 J1 K5 L1 M5 M10 N2 N9	
6EQ7 Diode Unit	A4 B5 B9 C3 G8 K3 L4 M5 M10 N2 N9	Reject if below 3.
6ER5	A3 B4 C1 C6 C7 D2 G5 I6 I10 J2 K8 L1 L6 L8 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6ES5	A3 B4 B6 B7 D2 G5 J2 K3 L1 L6 L7 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6ES8 (ECC89)	A4 B5 C3 C8 D2 D7 F1 G6 I6 I8 J1 K2 L1 L6 L7 M5 M10 N2 N9	Test P1 and P2. Special Leakage Test.

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6ET6/EF98	A3 B4 B7 C2 D1 F6 G5 J1 K7 K8 L2 M5 M10 N2 N9	
6EU7	A1 B2 C4 C9 D5 D8 F6 G7 I6 I10 I2 K8 L1 M5 M10 N2 N9	Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
6EU8 Triode Unit	A4 B5 C6 D2 G3 I8 I10 J1 K3 L1 L6 L7 M5 M10 N2 N9	
***6EU8 Pentode Unit**	A4 B5 C8 D7 E9 G1 I7 I9 J1 K4 L1 L6 L7 M5 M10 N2 N9	
6EV5	A3 B4 C2 C7 D1 E6 G5 I8 I9 J1 K2 L1 L6 L7 M5 M10 N2 N9	
6EV7	A4 B5 C3 C8 D2 D7 F1 G6 I7 I10 J1 K6 K7 L1 L6 L7 M5 M10 N2 N9	Test P1 and P2.
6EW6	A3 B4 B7 C2 D1 E6 G5 I7 I9 J1 K7 L1 L6 L8 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6EX6	A2 B7 C3 D5 E8 G10 I6 I7 J1 K2 L1 L6 L7 M3 M10 N1 N9	
6EY6	A2 B7 C8 D5 E4 G3 I6 I10 J7 K9 L1 L6 L8 M5 M10 N2 N9	
6EZ5	A2 B7 C8 D5 E4 G3 I6 I10 J7 K5 L1 L6 L7 M3 M10 N1 N9	
6EZ8	A5 B4 C1 D2 D7 D9 F6 G3 H8 I6 I10 J2 K6 K7 L1 L6 L7 M5 M10 N2 N9	Test P1 and P2. Reject if below 4.
6F5, GT	A7 B1 B2 C8 D10 G4 I6 I10 J2 K8 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6F6, G, GT	A2 B1 B7 C8 D5 E4 G3 I6 I10 J9 K5 M3 M10 N1 N9	
6F7 Triode Unit	A1 B7 C6 D5 G4 I6 I10 J6 K10 L1 M5 M10 N2 N9	Reject if below 2.
6F7 Pentode Unit	A1 B7 C6 D10 E3 G2 I7 I10 J6 K9 L1 M5 M10 N2 N9	
6F8G	A2 B7 C4 C8 D5 D10 F3 G6 I6 I10 J1 K1 L1 M5 M10 N2 N9	Test P1 and P2.
6FA7 Diode Unit	A4 B5 C6 G3 K10 L3 M5 M10 N2 N9	Reject if below 1.
6FA7 Tetrode Unit	A4 B5 C6 D7 E8 F1 G9 J1 K7 K8 L1 M5 M10 N2 N9	Test P1 and P2. Reject if below 3. Depress Special Leakage/Gas Button in gas test.
6FD7 Triode Unit 1	A4 B5 C8 D7 G6 I6 I10 J2 K6 K7 L1 M3 M10 N1 N9	Depress Special Leakage/Gas Button in gas test.
6FD7 Triode Unit 2	A4 B5 C9 D2 D3 G1 I6 I10 J10 K4 L1 L6 L7 M3 M10 N1 N9	
6FE5	A2 B7 C8 D5 E4 G3 I6 I8 J1 K3 L1 L6 L7 M4 M10 N2 N9	
6FG5	A3 B4 C2 D1 E4 G5 I6 I10 J1 K4 L1 L6 L7 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6FG6/EM84	A4 B5 C3 D1 E6 E7 G9 J2 K10 L1 M5 M10 N2 N9	Reject if below 1. Bands full closed.
6FG7 Pentode Unit	A4 B5 C8 D9 E7 G6 I6 I10 J2 K4 L1 L6 L7 M3 M10 N1 N9	
6FG7 Triode Unit	A4 B5 C3 D1 G2 I6 I10 J2 K8 L1 L6 L8 M3 M10 N1 N9	
6FH5	A3 B4 B6 C1 C7 D2 G5 I8 I10 J1 K2 L1 L6 L7 M5 M10 N2 N9	
6FH6	A7 B2 C8 D5 E4 G10 I7 I10 J10 K5 L1 L6 L7 M4 M10 N2 N9	
6FH8 Triode Unit	A5 B4 D2 G3 J2 K4 K5 L1 L6 L7 M5 M10 N2 N9	
6FH8 Tetrode Unit	A5 B1 B4 B8 D6 E7 G9 J3 K6 L1 L6 L7 M5 M10 N2 N9	Test P1.
6FH8 Tetrode Unit	A5 B4 D6 E7 F8 H1 J2 K1 L1 M5 M10 N2 N9	Test P2 and P3. Reject if below 3.5.
6FM8 Diode Unit	A4 B5 C1 C3 F2 G6 I6 I10 K7 L3 L6 L8 M5 M10 N2 N9	Test P1 and P2. Reject if below 4.
6FM8 Triode Unit	A4 B5 C7 D8 G9 J3 K9 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6FV6	A3 B4 C2 C7 D1 E6 G5 I7 I10 J1 K2 L1 L6 L7 M5 M10 N2 N9	
6FV8 Triode Unit	A4 B5 C3 D1 G2 I7 I9 J1 K1 L1 L6 L7 M5 M10 N2 N9	
6FV8 Pentode Unit	A4 B5 C8 D9 E7 G6 I7 I10 J1 K3 L1 L6 L7 M5 M10 N2 N9	
6FW5	A2 B7 C3 D1 E8 G5 I7 I9 J10 K5 L1 L6 L7 M4 M10 N2 N9	
6FW8	A4 B5 C3 C8 D2 D7 F1 G6 I6 I7 J1 K10 L1 L6 L9 M5 M10 N2 N9	Test P1 and P2. Special Leakage Test.
6FY5	A3 B4 B6 C1 C7 D2 G5 I6 I10 J2 K10 L1 L6 L9 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6FY8 Triode Unit	A4 B5 C8 D1 G9 J2 K5 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6FY8 Pentode Unit	A4 B5 C2 D3 E7 G6 I8 I10 J1 K2 L1 L6 L7 M5 M10 N2 N9	
6G6G, GT	A2 B7 C8 D5 E4 G3 I6 I10 J6 K3 L1 M5 M10 N2 N9	
6GC6	A2 B7 C3 D5 E4 E8 G10 I7 I10 J10 K5 L1 L6 L7 M4 M10 N2 N9	
6GE8 Triode Unit	A4 B5 C2 D3 G6 I7 I9 J10 K7 L1 L6 L7 M3 M10 N1 N9	
6GE8 Pentode Unit	A4 B5 C7 D8 E1 G9 I6 I10 J3 K7 L1 L6 L7 M3 M10 N1 N9	
***6GH8 Triode Unit**	A4 B5 C7 C8 D9 G1 I6 I10 J2 K2 L1 L6 L7 M5 M10 N2 N9	
***6GH8 Pentode Unit**	A4 B5 C7 D2 E3 G6 I6 I10 J2 K2 L1 L6 L7 M5 M10 N2 N9	
6GJ8	Use 6GH8 Data.	
6GK6	A4 B3 B5 B9 C1 D2 E8 G7 I6 I10 J5 K6 K7 L1 L6 L8 M3 M10 N1 N9	
6GM6	A3 B4 C2 C7 D1 E6 G5 I7 I10 J1 K6 K7 L1 L6 L8 M5 M10 N2 N9	
6GM8/ECC86	A4 B5 C3 C8 C9 D2 D7 F1 G6 I6 I10 J2 K3 L2 M5 M10 N2 N9	Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
6GN8 Triode Unit	A4 B5 C1 D2 G3 I6 I10 J2 K3 L1 M3 M10 N1 N9	Depress Special Leakage/Gas Button in gas test.
6GN8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K7 L1 L6 L8 M3 M10 N1 N9	
6GW6	A2 B7 C8 D5 E4 G10 I7 I10 J10 K4 L1 L6 L7 M4 M10 N2 N9	
6H6, GT	A2 B1 B7 C4 C8 F3 G5 K9 L3 L6 L7 M5 M10 N2 N9	Test P1 and P2. Reject if below 3.
6J4	A3 B4 C2 D1 G7 I7 I9 J1 K7 L1 L6 L8 M5 M10 N2 N9	

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
6J5, GT	A2 B1 B7 C8 D5 G3 I6 I10 J3 K1 L1 M5 M10 N2 N9	
6J6	A3 B4 C7 D5 D6 F1 G2 I7 I9 J1 K5 L1 I6 L7 M5 M10 N2 N9	Test P1 and P2.
6J7, G, GT	A2 B1 B7 C5 C8 D10 E4 G3 I6 I10 J6 K8 L1 M5 M10 N2 N9	
6K4/EC70	A3 B6 C7 D1 G2 G4 G8 J1 K6 K7 L1 L6 L7 M5 M10 N2 N9	Use WG-339A Adapter.
6K5G	A2 B1 B7 C8 D10 G3 I6 I10 J2 K5 K6 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6K6G	A2 B7 C8 D5 E4 G3 I6 I10 J9 K6 L1 M5 M10 N2 N9	
6K7, G, GT	A2 B1 B7 C5 C8 D10 E4 G3 I6 I10 J2 K6 L1 M5 M10 N2 N9	
6K8, G, GT Hexode Unit	A1 A2 B7 B10 C8 D5 G3 G4 I6 I7 J1 K5 L1 M5 M10 N2 N9	
6K8, G, GT Triode Unit	A7 B1 B2 C8 D5 G6 I6 I10 J1 K8 L1 L6 L7 M5 M10 N2 N9	
6L6, G, GB	A2 B7 C8 D5 E4 G3 I6 I10 J9 K6 L1 L6 L7 M5 M10 N2 N9	
6L7, G	A2 B1 B7 C8 D5 D10 E4 G3 I6 I10 J6 K6 L1 M5 M10 N2 N9	
6M3	A2 B8 C10 G3 I6 I10 K1 L4 L6 L10 M3 M10 N1 N9	Reject if below 4.
6N7, GT	A2 B1 B7 C8 D4 D5 F3 G6 I6 I10 J4 K8 L1 M5 M10 N2 N9	Test P1 and P2.
6N8/EBF80 Diode Unit	A4 B5 C3 F7 G8 I6 I10 K1 L4 M5 M10 N2 N9	Test P1 and P2. Reject if below 3.
6N8/EBF80 Pentode Unit	A4 B5 B9 C3 D2 E1 G6 I6 I10 J6 K3 K4 L1 M5 M10 N2 N9	
6P5G, GT	A2 B7 C8 D5 G3 I6 I10 J6 K6 L1 M5 M10 N2 N9	
6Q4 (EC80)	A4 B5 C3 D1 G9 I7 I10 J1 K10 L1 L6 L9 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6Q7, G, GT Diode Unit	A2 B1 B7 C8 F4 G5 K10 L3 M5 M10 N2 N9	Test P1 and P2. Reject if below 3.
6Q7, G, GT Triode Unit	A2 B1 B7 C8 D10 G3 I6 I10 J2 K8 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6R3/EY81	A4 B5 C10 G2 G9 I6 I10 K6 L4 L6 L10 M3 M10 N1 N9	Reject if below 4.
6R4/EC81	A4 B5 C3 D1 G8 I6 I10 J4 K6 L1 L6 L7 M5 M10 N2 N9	
6R7, GT Triode Unit	A2 B7 C8 D10 G3 I6 I10 J7 K7 K8 L1 M5 M10 N2 N9	
6R7, GT Diode Unit	A2 B7 C8 F4 G5 I6 I10 K10 L3 M5 M10 N2 N9	Test P1 and P2. Reject if below 2.
6R8 Triode Unit	A4 B5 C7 D8 G9 I6 I10 J3 K5 L1 M5 M10 N2 N9	
6R8 Diode Unit	A4 B5 C3 C7 F2 G6 H1 I6 I10 K7 L3 L6 L8 M5 M10 N2 N9	Test P1, P2 and P3. Reject if below 3.
6S2	A5 B4 G10 K7 K8 L5 L6 L7 M5 M10 N2 N9	Reject if below 3.
6S4, A	A4 B5 C2 D3 G9 I6 I10 J6 K1 L1 M5 M10 N2 N9	
6S7	A2 B7 C5 C8 D10 E4 G3 I6 I10 J6 K6 L1 M5 M10 N2 N9	
6S8GT Diode Unit	A7 B8 C2 C5 F4 G3 H1 K10 L3 M5 M10 N2 N9	Test P1, P2 and P3. Reject if below 3.
6S8GT Triode Unit	A7 B8 C2 D10 G6 J2 K10 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6SA7, GT	A2 B1 B7 C6 C8 D5 G3 G4 I6 I10 J6 K6 L1 L6 L7 M5 M10 N2 N9	
6SB7Y	A2 B1 B7 C6 C8 D5 G3 G4 I6 I10 J1 K1 L1 L6 L7 M5 M10 N2 N9	
6SC7	A7 B1 B8 C6 D3 D4 F2 G5 I6 I10 J2 K9 L1 M5 M10 N2 N9	Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
6SD7GT	A2 B1 B3 B7 C5 D4 E6 G8 I6 I10 J4 K6 K7 L1 L6 L7 M5 M10 N2 N9	
6SF5, GT	A7 B1 B8 C2 D3 G5 I7 I9 J2 K8 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6SF7 Diode Unit	A7 B1 B8 C3 G5 K10 L3 M5 M10 N2 N9	Reject if below 2.
6SF7 Pentode Unit	A7 B1 B8 C3 D2 E4 G6 I6 I10 J2 K4 L1 M5 M10 N2 N9	
6SG7	A2 B1 B7 C3 D4 E6 G8 I6 I10 J2 K5 L1 L6 L7 M5 M10 N2 N9	
6SH7	A2 B1 B7 C3 D4 E6 G8 I6 I10 J2 K6 L1 L6 L7 M5 M10 N2 N9	
6SJ7, GT	A2 B1 B7 C3 C5 D4 E6 G8 I7 I10 J6 K7 L1 M5 M10 N2 N9	Reject if below 4.
6SK7, GT	A2 B1 B7 C3 C5 D4 E6 G8 I6 I10 J4 K9 L1 L6 L7 M5 M10 N2 N9	
6SL7GT	A7 B8 C3 C6 D1 D4 F2 G5 I6 I10 J2 K8 L1 M5 M10 N2 N9	Test P1 and P2.
***6SN7GT, GTA, GTB**	A7 B8 C3 C6 D1 D4 F2 G5 I6 I10 J3 K1 L1 M5 M10 N2 N9	Test P1 and P2.
6SQ7, GT Diode Unit	A7 B1 B8 C3 F4 G5 K10 L3 M5 M10 N2 N9	Test P1 and P2. Reject if below 2.
6SQ7, GT Triode Unit	A7 B1 B8 C3 D2 G6 I6 I10 J2 K9 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6SR7 Diode Unit	A7 B1 B8 C3 F4 G5 K8 L4 L6 L7 M5 M10 N2 N9	Test P1 and P2. Reject if below 3.
6SR7 Triode Unit	A7 B1 B8 C3 D2 G6 I6 I10 J7 K8 L1 M5 M10 N2 N9	
6SS7	A2 B1 B7 C3 C5 D4 E6 G8 I6 I10 J2 K4 L1 M5 M10 N2 N9	
6ST7 Diode Unit	A7 B8 C3 F4 G5 K8 L4 L6 L7 M5 M10 N2 N9	Test P1 and P2. Reject if below 3.
6ST7 Triode Unit	A7 B8 C3 D2 G6 I6 I10 J7 K8 L1 M5 M10 N2 N9	
6SU7, GTY	Use 6SL7GT Card.	
6SV7 Pentode Unit	A7 B8 C3 D2 E4 G6 I6 I10 J2 K3 L4 M5 M10 N2 N9	
6SV7 Diode Unit	A7 B8 C3 G5 I6 I10 K7 L3 L6 L7 M5 M10 N2 N9	Reject if below 4.
6T4	A3 B4 C5 D2 G1 I8 I9 J1 K3 L1 L6 L7 M5 M10 N2 N9	
6T7G Diode Unit	A2 B7 C8 F4 G5 I6 I10 K6 L4 M5 M10 N2 N9	Test P1 and P2. Reject if below 3.

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
6T7G Triode Unit	A2 B7 C8 D10 G3 I6 I10 J2 K8 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6T8 Diode Unit	A4 B5 C3 C7 F2 G6 H1 I6 I10 K7 L3 L6 L8 M5 M10 N2 N9	Test P1, P2 and P3. Reject if below 3.
6T8 Triode Unit	A4 B5 C7 D8 G9 I6 I10 J2 K8 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6U3/EY80	A4 B5 C3 G9 I6 I10 K4 K5 L4 L6 L10 M3 M10 N1 N9	Reject if below 4.
6U4GT	A7 B8 C3 G5 I6 I10 K5 L4 L6 L10 M3 M10 N1 N9	Reject if below 3.
6U5	A1 B6 C5 D3 E4 G2 I6 I10 J3 K10 L1 M5 M10 N2 N9	Triode Test—P1. Shadow Min.—P1. Shadow Max.—P2.
6U6GT	A2 B7 C8 D5 E4 G3 I6 I10 J10 K5 L1 L6 L7 M3 M10 N1 N9	
6U7G	A7 B2 C5 C8 D10 E4 G3 I6 I10 J6 K10 L6 L7 L1 M5 M10 N2 N9	
6U8, A Pentode Unit	A4 B5 C7 D2 E3 G6 I7 I10 J1 K6 L1 L6 L7 M5 M10 N2 N9	
6U8, A Triode Unit	A4 B5 C8 D9 G1 I7 I10 J1 K3 L1 L6 L7 M5 M10 N2 N9	
6V3A	A4 B5 C10 G2 K8 L4 L6 L10 M4 M10 N2 N9	Reject if below 4.
6V4/EZ80	A4 B5 C3 F7 G1 I6 I10 K5 L4 L6 L9 M5 M10 N2 N9	Test P1 and P2. Reject if below 4.
*6V6, GT	A2 B7 C8 D5 E4 G3 I6 I7 J1 K1 L1 M5 M10 N2 N9	
6V8 Triode Unit	A4 B5 C3 D6 G1 I7 I10 J1 K7 L1 M5 M10 N2 N9	
6V8 Dual Diode	A4 B5 C3 C8 F2 G7 I6 I10 K1 L3 L6 L7 M5 M10 N2 N9	Test P1 and P2. Reject if below 4.
6V8 Diode Unit	A5 B4 C3 G9 I6 I10 K2 L4 M5 M10 N2 N9	Reject if below 2.
6W4GT	A7 B8 C3 G5 I6 I10 K5 L4 L6 L10 M5 M10 N2 N9	Reject if below 3.
6W6, GT	A2 B7 C8 D5 E4 G3 I6 I10 J9 K1 L1 L6 L7 M3 M10 N1 N9	
6W7G	A2 B5 B7 C8 D10 E4 G3 I6 I10 J6 K7 L1 M5 M10 N2 N9	
6X2/EY51	A1 B7 G10 K1 L5 M5 M10 N2 N9	Reject if below 3. Use GW-338A Adapter. Connect base leads to Pins 1 and 7. Connect top lead to "Plate" Connector.
6X4	A3 B4 C7 F1 G6 K6 L5 L6 L10 M5 M10 N2 N9	Test P1 and P2. Reject if below 4.
6X5, GT	A7 B1 B2 C8 F3 G5 K5 L5 L6 L10 M5 M10 N2 N9	Test P1 and P2. Reject if below 4.
6X8 Pentode Unit	A4 B5 C1 C6 D7 E8 G9 I6 I7 J1 K6 L1 L6 L7 M5 M10 N2 N9	
6XB Triode Unit	A4 B5 C6 D2 G3 I7 I9 J1 K4 L1 L6 L7 M5 M10 N2 N9	
6Y6G	A2 B7 C8 D5 E4 G3 I6 I10 J10 K3 L1 L6 L7 M3 M10 N1 N9	
6Y7G	A2 B7 C8 D4 D5 F3 G6 I6 I10 J2 K8 L1 M3 M1 N1 N9	Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
6Z7G	A2 B7 C8 D4 D5 F3 G6 I6 I10 J2 K8 L1 M3 M10 N1 N9	Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
7A4	A1 B8 C7 D6 G2 I6 I10 J2 K7 L1 L6 L7 M5 M10 N2 N9	
7A5	A1 B8 C7 D6 E3 G2 I6 I10 J9 K3 L1 L6 L7 M5 M10 N2 N9	
7A6	A1 B5 B8 C2 C7 F3 G6 I6 I10 K8 L3 L6 L7 M5 M10 N2 N9	Test P1 and P2. Reject if below 3.
7A7	A1 B5 B8 C4 C7 D6 E3 G2 I6 I10 J2 K2 L1 M5 M10 N2 N9	
7A8	A1 B8 C7 D4 E3 G2 G5 G6 I6 I10 J1 K7 L1 L6 L7 M5 M10 N2 N9	
7AD7	A1 B8 C4 C7 D6 E3 G2 I7 I10 J1 K7 L1 L6 L8 M3 M10 N1 N9	
7AF7	A1 B8 C2 C7 D4 D5 F3 G6 I6 I10 J1 K1 L1 M5 M10 N2 N9	Test P1 and P2.
7AG7	A1 B5 B8 C4 C7 D6 E3 G2 J1 K8 L1 L6 L7 M5 M10 N2 N9	
7AH7	A1 B8 C4 C7 D6 E3 G2 I8 I10 J1 K1 L1 M3 M10 N1 N9	Depress Special Leakage/Gas Button in gas test.
7AK7	A1 B5 B8 C4 C7 D6 E3 G2 J1 K8 L1 L6 L7 M3 M10 N1 N9	
7AN7/PCC84	A4 B5 C1 C8 D2 D6 F3 G9 I6 I10 J3 K2 L1 L6 L7 M5 M10 N3 N9	Test P1 and P2.
*7AU7	A4 B5 C3 C8 D2 D7 F1 G6 I6 I10 J5 K4 L1 M4 M10 N2 N9	Test P1 and P2.
7B4	A1 B8 C7 D6 G2 I6 I10 J2 K8 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
7B5	A1 B8 C7 D6 E3 G2 I6 I10 J9 K6 L1 M5 M10 N2 N9	
7B6 Diode Unit	A1 B8 C7 F5 G6 I6 I10 K10 L3 M5 M10 N2 N9	Test P1 and P2. Reject if below 2.
7B6 Triode Unit	A1 B8 C7 D3 G2 I6 I10 J2 K9 L1 M5 M10 N2 N9	
7B7	A1 B8 C4 C7 D6 E3 G2 I6 I10 J6 K5 L1 M5 M10 N2 N9	
7B8	A1 B8 C7 D4 G2 G3 G5 G6 I6 I10 J7 K8 L1 L6 L7 M5 M10 N2 N9	
7C4	A1 B8 C7 G4 K6 L3 M5 M10 N2 N9	Reject if below 4.
7C5	A1 B8 C7 D6 E3 G2 I6 I10 J8 K8 L1 L6 L7 M5 M10 N2 N9	
7C6 Diode Unit	A1 B8 C4 C7 F5 G6 K7 L4 L6 L7 M5 M10 N2 N9	Test P1 and P2. Reject if below 3.
7C6 Triode Unit	A1 B8 C4 C7 D3 G2 I6 I10 J1 K8 L1 M5 M10 N2 N9	
7C7	A1 B8 C4 C7 D6 E3 G2 I6 I10 J6 K7 L1 M5 M10 N2 N9	
7DJ8	A4 B5 C3 C8 D2 D7 F1 G6 I9 I10 J1 K1 L1 L6 L7 M4 M10 N2 N9	Test P1 and P2.
7E5	A2 B8 C4 D1 G3 I6 I10 J3 K3 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
7E6 Diode Unit	A1 B8 C7 F6 G5 I6 I10 K10 L3 M3 M10 N1 N9	Test P1 and P2. Reject if below 2.

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7E6 Triode Unit	A1 B8 C7 D3 G2 I6 I10 J6 K10 L1 L6 L7 M3 M10 N1 N9	
7E7 Diode Unit	A1 B8 C7 F4 G3 I6 I10 K10 L3 M3 M10 N1 N9	Test P1 and P2. Reject if below 2.
7E7 Pentode Unit	A1 B8 C7 D6 E5 G2 I6 I10 J2 K6 L1 M3 M10 N1 N9	
7ES8	A4 B5 C3 C8 D2 D7 F1 G6 I6 I8 J1 K2 L1 L6 L7 M3 M10 N2 N9	
7EY6	A2 B7 C8 D5 E4 G3 I6 I10 J7 K9 L1 L6 L8 M3 M10 N1 N9	
7F7	A1 B8 C2 C7 D4 D5 F3 G6 I6 I10 J2 K8 L1 M5 M10 N2 N9	Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
7F8	A2 B7 C4 C5 D1 D8 F3 G6 J3 K5 L1 M5 M10 N2 N9	Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
7G7	A1 B8 C7 D6 E3 G2 I6 I10 J2 K3 L1 L6 L7 M3 M10 N1 N9	
7H7	A1 B5 B8 C4 C7 D6 E3 G2 I6 I10 J2 K5 L1 L6 L7 M5 M10 N2 N9	
7J7 Triode Unit	A1 B8 C7 D4 G3 I6 I10 J3 K7 L1 M3 M10 N1 N9	
7J7 Heptode Unit	A1 B8 C4 C7 D6 E5 G2 I6 I10 J3 K5 L1 M3 M10 N1 N9	
7K7 Triode Unit	A1 B8 C2 D4 G3 I9 I10 J1 K8 L1 M5 M10 N2 N9	
7K7 Diode Unit	A1 B8 C7 F5 G6 I6 I10 K3 L4 M5 M10 N2 N9	Test P1 and P2. Reject if below 3.
7L7	A1 B4 B5 B8 C7 D6 E3 G2 I6 I10 J2 K7 K8 L1 L6 L7 M5 M10 N2 N9	
7N7	A1 B8 C2 C7 D4 D5 F3 G6 I6 I10 J3 K1 L1 M5 M10 N2 N9	Test P1 and P2.
7Q7	A1 B5 B6 B8 C7 D4 G2 G3 I6 I10 J2 K6 L1 L6 L7 M5 M10 N2 N9	
7R7 Diode Unit	A1 B8 C7 F3 G4 I6 I10 K1 L4 M5 M10 N2 N9	Test P1 and P2. Reject if below 3.
7R7 Pentode Unit	A1 B8 C7 D6 E5 G2 I6 I10 J2 K1 L1 M5 M10 N2 N9	
7S7 Triode Unit	A1 B8 C7 D4 G3 I6 I10 J3 K7 L1 M5 M10 N2 N9	
7S7 Heptode Unit	A1 B8 C4 C7 D6 E5 G2 I6 I10 J3 K1 L1 M5 M10 N2 N9	
7T7	A1 B8 C4 C7 D6 E3 G2 I6 I10 J2 K7 L1 L6 L7 M3 M10 N1 N9	
7V7	A1 B5 B8 C4 C7 D6 E3 G2 I8 I10 J1 K5 L1 L6 L7 M5 M10 N2 N9	
7W7	A1 B8 C4 C5 C7 D6 E3 G2 I8 I10 J1 K5 L1 L6 L7 M5 M10 N2 N9	
7X6	A1 B8 C2 C7 F6 G3 I6 I10 K7 L4 L6 L10 M3 M10 N1 N9	Test P1 and P2. Reject if below 4.
7X7 Diode Unit	A1 B8 C4 C7 F6 G5 I6 I10 K7 L3 L6 L8 M5 M10 N2 N9	Test P1 and P2. Reject if below 2.
7X7 Triode Unit	A1 B8 C4 D3 G2 I6 I10 J2 K9 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
7Y4	A1 B8 C7 F3 G6 K6 L5 L6 L10 M5 M10 N2 N9	Test P1 and P2. Reject if below 4.
7Z4	A1 B8 C7 F3 G6 K7 L5 L6 L10 M3 M10 N1 N9	Test P1 and P2. Reject if below 4.
8AU8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K8 L1 L6 L8 M5 M10 N3 N9	
8AU8 Triode Unit	A4 B5 C1 D2 G3 I8 I9 J1 K6 L1 L6 L7 M5 M10 N3 N9	
8AW8A Pentode Unit	A4 B5 C6 D7 E8 G9 I6 I7 J1 K2 L1 L6 L7 M5 M10 N3 N9	
8AW8A Triode Unit	A4 B5 C1 D2 G3 I6 I10 J2 K10 L1 L6 L8 M5 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
8BA8A Pentode Unit	A4 B5 C6 D7 E8 G9 I6 I7 J1 K2 L1 L6 L7 M5 M10 N3 N9	
8BA8A Triode Unit	A4 B5 C1 D2 G3 I6 I10 J7 K4 L1 M5 M10 N3 N9	
8BH8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K3 L1 L6 L7 M5 M10 N3 N9	
8BH8 Triode Unit	A4 B5 C1 D2 G3 I6 I10 J7 K3 L1 M5 M10 N3 N9	
8BN8 Diode Unit	A4 B5 C2 C3 F1 G6 I6 I10 K4 L3 L6 L7 M5 M10 N3 N9	Test P1 and P2. Reject if below 3.
8BN8 Triode Unit	A4 B5 C9 D8 G7 I6 I10 J2 K7 L1 L6 L7 M5 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
8BQ5	A4 B5 C3 D2 E9 G7 I6 I10 J6 K7 L1 L6 L8 M5 M10 N3 N9	
8BQ7A	A4 B5 C3 C8 D2 D7 F1 G6 I7 I8 J1 K9 L1 L6 L8 M5 M10 N3 N9	Test P1 and P2. Special Leakage Test.
*8CG7	A4 B5 C3 C8 D2 D7 F1 G6 I6 I10 J3 K1 L1 M5 M10 N3 N9	Test P1 and P2.
8CM7 Triode Unit 1	A4 B5 C3 D7 G6 I6 I10 J6 K5 L1 M5 M10 N3 N9	
8CM7 Triode Unit 2	A4 B5 C9 D8 G1 I6 I10 J6 K7 L1 L6 L7 M5 M10 N3 N9	
8CN7 Diode Unit	A4 B5 C3 F2 G1 K7 L3 L6 L8 M5 M10 N3 N9	Test P1 and P2. Reject if below 3.
8CN7 Triode Unit	A4 B5 C6 D7 G8 I6 I10 J2 K7 L1 M5 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
8CS7 Triode Unit 1	A4 B5 C8 D7 G6 I6 I10 J6 K6 L1 M5 M10 N3 N9	
8CS7 Triode Unit 2	A4 B5 C9 D3 G1 I6 I10 J7 K1 L1 M10 N3 N9	
8CW5	A4 B5 C3 D2 E9 G7 I6 I10 J9 K6 L1 L6 L8 M5 M10 N3 N9	
8CX8 Triode Unit	A4 B5 B6 B7 B8 B9 C1 D2 G3 I6 I7 J1 K6 K7 L1 L6 L7 M5 M10 N3 N9	
8CX8 Pentode Unit	A4 B1 B2 B3 B5 C6 D7 E8 G9 I7 I10 J1 K7 L1 L6 L8 M5 M10 N3 N9	
8CY7 Triode Unit 1	A4 B5 C8 D7 G6 I6 I10 J2 K7 L1 M5 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
8CY7 Triode Unit 2	A4 B5 C9 D3 G1 J9 K6 L1 L6 L7 M5 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
8EB8 Triode Unit	A4 B5 C1 D2 G3 J1 K4 L1 M3 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
8EB8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I10 J1 K7 L1 L6 L8 M3 M10 N2 N9	
8EM5	A4 B5 C7 D3 D6 E1 G9 I6 I8 J1 K6 L1 L6 L7 M5 M10 N3 N9	

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
8GN8 Triode Unit	A4 B5 C1 D2 G3 I6 I10 J2 K3 L1 M5 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
8GN8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K7 L1 L6 L8 M5 M10 N3 N9	
***8SN7**	A7 B8 C3 C6 D1 D4 F2 G5 I6 I10 J3 K1 L1 M5 M10 N3 N9	Test P1 and P2.
8SN7GTB	A7 B8 C3 C6 D1 D4 F2 G5 I6 I10 J3 K1 L1 M5 M10 N3 N9	Test P1 and P2.
9AK8 Diode Unit	A4 B5 C3 C7 F2 G6 H1 I6 I10 K7 L3 L6 L8 M5 M10 N4 N9	Test P1, P2 and P3. Reject if below 4.
9AK8 Triode Unit	A4 B5 C7 D8 G9 I6 I10 J2 K8 L1 M5 M10 N4 N9	Depress Special Leakage/Gas Button in gas test.
9AQ8	A4 B5 C3 C8 D2 D7 F1 F6 I6 I7 J1 K5 L1 L6 L7 M5 M10 N4 N9	Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
***9AU7**	A4 B5 C3 C8 D2 D7 F1 G6 I6 I10 J5 K9 L1 L6 L7 M5 M10 N4 N9	Test P1 and P2.
9BR7 Triode Unit	A4 B5 C3 D2 G1 J1 K7 L1 L6 L7 M5 M10 N4 N9	Depress Special Leakage/Gas Button in gas test.
9BR7 Diode Unit	A4 B5 C8 F6 G7 I6 I10 K7 L3 L6 L8 M5 M10 N4 N9	Test P1 and P2. Reject if below 4.
9BR8 Pentode Unit	A4 B5 C8 D9 E7 G6 I7 I10 J1 K9 L1 L6 L8 M5 M10 N4 N9	
9BR8 Triode Unit	A4 B5 C3 D1 G2 I6 I9 J1 K2 L1 L6 L7 M5 M10 N4 N9	
9CL8 Tetrode Unit	A4 B5 C8 D9 E7 G6 I6 I10 J2 K3 L1 L6 L7 M5 M10 N4 N9	
9CL8 Triode Unit	A4 B5 C3 D1 G2 I6 I10 J2 K1 L1 L6 L7 M5 M10 N4 N9	
9DZ8 Triode Unit	A4 B5 C8 D1 G9 I6 I9 J3 K8 L1 M4 M10 N3 N9	
9DZ8 Pentode Unit	A4 B5 C2 D3 E7 G6 I8 I9 J2 K4 L1 L6 L7 M4 M10 N3 N9	
9EF6	A2 B7 C8 D5 E4 G3 I6 I10 J9 K6 L1 L6 L7 M5 M10 N5 N9	
9U8A Pentode Unit	A4 B5 C7 D2 E3 G6 I7 I10 J1 K6 L1 L6 L7 M5 M10 N4 N9	
9U8A Triode Unit	A4 B5 C8 D9 G1 I7 I10 J1 K3 L1 L6 L7 M5 M10 N4 N9	
9X8 Triode Unit	A4 B5 C6 D2 G3 I7 I9 J1 K4 L1 L6 L7 M5 M10 N4 N9	
9X8 Pentode Unit	A4 B5 C1 C6 D7 E8 G9 I6 I7 J1 K6 L1 L6 L7 M5 M10 N4 N9	
10BQ5	A4 B5 C3 D2 E9 G7 I6 I10 J6 K7 L1 L6 L7 M3 M10 N1 N9	
10C8 Pentode Unit	A4 B5 C9 D8 E7 G6 I7 I9 J1 K2 L1 L6 L7 M4 M10 N5 N9	
10C8 Triode Unit	A4 B5 C3 D2 G1 I6 I10 J3 K7 L1 L6 L7 M4 M10 N5 N9	Depress Special Leakage/Gas Button in gas test.
10DE7 Triode Unit 1	A4 B5 C8 D7 G6 I6 I10 J7 K10 L1 L6 L7 M4 M10 N5 N9	Depress Special Leakage/Gas Button in gas test.
10DE7 Triode Unit 2	A4 B5 C9 D2 G1 I6 I10 J10 K9 L1 L6 L8 M4 M10 N5 N9	
10DR7 Triode Unit 1	A4 B5 C8 D7 G6 J1 K6 L1 M5 M10 N5 N9	Depress Special Leakage/Gas Button in gas test.
10DR7 Triode Unit 2	A4 B5 C9 D2 G1 J7 K6 L1 L6 L7 M5 M10 N5 N9	
10EB8 Triode Unit	A4 B5 C1 D2 G3 J1 K4 L1 M4 M10 N5 N9	
10EB8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I10 J1 K7 L1 L6 L8 M4 M10 N5 N9	
10EG7 Triode Unit 1	A7 B8 C6 D4 G5 I6 I10 J7 K6 L1 M5 M10 N5 N9	
10EG7 Triode Unit 2	A7 B8 C3 D1 G2 I6 I10 J10 K5 L1 L6 L7 M5 M10 N5 N9	
10FD7 Triode Unit 1	A4 B5 C8 D7 G6 I6 I10 J2 K6 K7 L1 M4 M10 N5 N9	Depress Special Leakage/Gas Button in gas test.
10FD7 Triode Unit 2	A4 B5 C9 D2 D3 G1 I6 I10 J10 K4 L1 L6 L7 M4 M10 N5 N9	
11C5	A3 B4 C1 D2 E6 G7 I9 I10 J1 K5 L1 L6 L7 M1 M10 N2 N9	
11CY7 Triode Unit 1	A4 B5 C8 D7 G6 I6 I10 J2 K7 L1 M1 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
11CY7 Triode Unit 2	A4 B5 C9 D3 G1 J9 K6 L1 L6 L7 M1 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
12A4	A4 B5 C1 D7 G9 I6 I10 J4 K6 L1 L6 L8 M2 M10 N4 N9	
12A6, GT	A2 B1 B7 C8 D5 E4 G3 I6 I10 J8 K3 L1 M2 M10 N3 N9	
12A8GT	A2 B1 B7 B10 C8 D5 G3 G4 G6 I6 I10 J7 K9 L1 L6 L7 M2 M10 N3 N9	
12AB5	A4 B5 C7 D3 D6 E1 G9 I6 I7 J1 K7 L1 L6 L7 M2 M10 N3 N9	
12AC5/UF41	A1 B8 C3 C7 D6 E5 G2 I6 I10 J4 K2 L1 M2 M10 N3 N9	Use Special Adapter.
12AC6	A3 B2 B4 C7 D1 E6 G5 J1 K9 L2 M2 M10 N3 N9	
12AD6	A3 B4 C2 C7 D1 G5 G6 I6 I8 J1 K4 L2 M2 M10 N3 N9	
12AD7	A4 B5 C3 C8 D2 D7 F6 G1 I6 I10 J2 K8 L1 M2 M10 N3 N9	Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
12AE6A Diode Unit	A3 B4 C2 F5 G6 I6 I10 K10 L3 M2 M10 N3 N9	Test P1 and P2. Reject if below 2.
***12AE6A** Triode Unit	A3 B4 C2 D1 G7 I6 I10 J1 K6 K8 L2 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test. For 12AE6 without suffix "A", reject if below 3.5.
12AE7 Triode Unit 1	A4 B5 C8 D7 G6 J1 K7 L2 L6 L7 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
12AE7 Triode Unit 2	A4 B5 C3 D2 G1 I7 I9 J1 K5 L2 L6 L7 M2 M10 N3 N9	
12AF3	A4 B5 C10 G9 I6 I10 K5 L4 L6 L10 M1 M10 N2 N9	Reject if below 4.
12AF6	A3 B2 B4 C7 D1 E6 G5 I6 I10 J1 K8 L2 M2 M10 N3 N9	
12AH7GT	A7 B8 C2 C4 D1 D5 F3 G6 I6 I10 J6 K6 L1 M2 M10 N4 N9	Test P1 and P2.
12AJ6 Diode Unit	A3 B4 C2 F5 G6 K10 L3 M2 M10 N3 N9	Test P1 and P2. Reject if below 2.
12AJ6 Triode Unit	A3 B4 C2 D1 G7 I7 I9 J1 K9 L2 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
12AL5	A3 B4 C1 C5 F2 G7 I6 I10 K7 L3 L6 L8 M2 M10 N3 N9	Test P1 and P2. Reject if below 3.

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12AL8 Tetrode Unit	A4 B5 C7 D2 E3 G6 I6 I10 J2 K2 L2 L6 L7 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
12AL8 Triode Unit	A4 B5 C9 D8 G1 I6 I10 J5 K8 L1 M2 M10 N3 N9	
12AQ5	A3 B4 C2 D1 E6 G5 I6 I10 J8 K8 L1 L6 L7 M2 M10 N3 N9	
12AS5	A3 B4 C1 D2 E6 G7 I9 I10 J1 K5 L1 L6 L7 M2 M10 N3 N9	
12AT6 Diode Unit	A3 B4 C2 F5 G6 I6 I10 K7 L4 L6 L7 M2 M10 N3 N9	Test P1 and P2. Reject if below 4.
12AT6 Triode Unit	A3 B4 C2 D1 G7 I6 I10 J2 K8 L1 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
12AT7	A4 B5 C3 C8 D2 D7 F1 G6 J1 K10 L1 L6 L8 M2 M10 N3 N9	Test P1 and P2.
12AU6	A3 B4 C2 C7 D1 E6 G5 I7 I9 J1 K6 L1 L6 L7 M2 M10 N3 N9	
*12AU7	A4 B5 C3 C8 D2 D7 F1 G6 I6 I10 J5 K4 L1 M2 M10 N3 N9	Test P1 and P2.
12AV5GA	A2 B4 B7 C3 D1 E8 G5 I7 I9 J10 K6 L1 L6 L7 M2 M10 N3 N9	
12AV6 Diode Unit	A3 B4 C2 F5 G6 I6 I10 K7 L4 L6 L7 M2 M10 N3 N9	Test P1 and P2. Reject if below 4.
12AV6 Triode Unit	A3 B4 C2 D1 G7 I6 I10 J2 K8 L1 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
12AV7	A4 B5 C3 C8 D2 D7 F1 G6 I8 I10 J1 K4 L1 L6 L7 M2 M10 N3 N9	Test P1 and P2.
12AW6	A3 B4 B7 C2 D1 E6 G5 I6 I7 J1 K6 L1 L6 L7 M2 M10 N3 N9	
12AX4GT, GTA	A7 B8 C3 G5 I6 I10 K1 L4 L6 L9 M2 M10 N3 N9	Reject if below 3.
12AX5	A2 B7 C8 F3 G5 I6 I10 K6 L5 L6 L10 M2 M10 N3 N9	Test P1 and P2. Reject if below 4.
12AX7	A4 B5 C3 C8 D2 D7 F1 G6 I6 I10 J2 K8 L1 M2 M10 N3 N9	Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
12AY7	A4 B5 C3 C8 D2 D7 F1 G6 I6 I10 J3 K10 L1 L6 L7 M2 M10 N3 N9	Test P1 and P2.
12AZ7	A4 B5 C3 C8 D2 D7 F1 G6 J1 K10 L1 L6 L8 M2 M10 N3 N9	Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
12B4A	A4 B5 C1 D2 D7 G9 I6 I10 K4 L1 L6 L7 M2 M10 N3 N9	
12BA6	A3 B4 C2 C7 D1 E6 G5 I6 I10 J2 K10 L1 L6 L8 M2 M10 N3 N9	
12BA7	A4 B5 B6 B7 B8 C3 D2 G1 G9 I6 I10 J2 K1 L1 L6 L7 M2 M10 N3 N9	
12BD5	A2 B7 C3 D1 E8 G5 I6 I10 J8 K7 L1 L6 L7 M2 M10 N3 N9	
12BD6	A3 B4 C2 C7 D1 E6 G5 I6 I10 J2 K3 L1 M2 M10 N3 N9	
12BE6	A3 B4 C2 C7 D1 G5 G6 I6 I10 J1 K3 L1 L6 L7 M2 M10 N3 N9	
12BF6 Diode Unit	A3 B4 C2 F5 G6 I6 I10 K7 L4 L6 L7 M2 M10 N3 N9	Test P1 and P2. Reject if below 3.
12BF6 Triode Unit	A3 B4 C2 D1 G7 I6 I10 J7 K8 L1 M2 M10 N3 N9	
12BH7, A	A4 B5 C3 C8 D2 D7 F1 G6 I6 I10 J7 K8 L1 L6 L7 M2 M10 N3 N9	Test P1 and P2.
12BK5	A4 B5 C6 D3 D7 E8 G1 I6 I10 J5 K3 L1 L6 L7 M2 M10 N3 N9	
12BL6	A3 B4 C2 C7 D1 E6 G5 I6 I10 J2 K7 L2 M2 M10 N3 N9	
12BN6	A3 B4 C1 D2 G5 G6 G7 J1 K8 L5 L6 L7 M2 M10 N4 N9	
12BQ6GTB, 12CU6	A2 B7 C8 D5 E4 G10 I8 I10 J10 K5 L1 L6 L7 M2 M10 N3 N9	
12BR7 Diode Unit	A4 B5 C8 F6 G7 K7 L3 L6 L8 M2 M10 N3 N9	Test P1 and P2. Reject if below 3.
12BR7 Triode Unit	A4 B5 C3 D2 G1 J1 K10 L1 L6 L8 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
12BV7	A4 B5 C1 C3 D2 E8 G7 I7 I10 J1 K6 L1 L6 L8 M2 M10 N3 N9	
12BW4	A4 B5 C9 F1 G7 I6 I10 K5 L5 L6 L10 M2 M10 N3 N9	Test P1 and P2.
12BY7, A	A4 B5 C1 C3 D2 E8 G7 I7 I10 J1 K6 L1 L6 L8 M2 M10 N3 N9	
12BZ6	A3 B4 C2 C7 D1 E6 G5 I6 I8 J1 K9 L1 L6 L8 M2 M10 N4 N9	
12BZ7	A4 B5 C3 C8 D2 D7 F1 G6 I6 I10 J2 K5 L1 M2 M10 N3 N9	Test P1 and P2.
12C5	A3 B4 C1 D2 E6 G7 I6 I10 J9 K2 L1 L6 L7 M2 M10 N3 N9	
12C8 Diode Unit	A7 B1 B2 C8 F4 G5 K10 L3 M2 M10 N3 N9	Test P1 and P2. Reject if below 2.
12C8 Pentode Unit	A7 B1 B2 C8 D10 E6 G3 I6 I10 J6 K8 L1 M2 M10 N3 N9	
12CA5	A3 B4 C1 D2 D5 E6 G7 I6 I10 J7 K2 L1 L6 L7 M2 M10 N3 N9	
12CM6	A4 B5 C7 D3 E1 G9 I6 I10 J8 K8 L1 L6 L7 M2 M10 N4 N9	
12CN5	A3 B4 C1 D2 D5 E6 G7 I6 I10 J1 K10 L2 L6 L8 M2 M10 N3 N9	
12CR6 Diode Unit	A3 B4 C1 G2 I6 I10 K8 L3 M2 M10 N3 N9	Reject if below 2.
12CR6 Pentode Unit	A3 B4 C1 D7 E6 G5 I6 I10 J3 K9 L1 L6 L7 M2 M10 N3 N9	
12CS6	A3 B4 B7 C2 D1 G5 G6 I6 I10 J7 K8 L1 L6 L7 M2 M10 N3 N9	
12CS7 Triode Unit 1	A4 B5 C8 D7 G6 I6 I10 J6 K6 L1 M2 M10 N3 N9	
12CS7 Triode Unit 2	A4 B5 C9 D3 G1 I6 I10 J7 K1 L1 M2 M10 N3 N9	
12CT8 Pentode Unit	A4 B5 C9 D8 E7 G6 I7 I10 J1 K2 L1 L6 L7 M2 M10 N3 N9	
12CT8 Triode Unit	A4 B5 C3 D2 G1 I8 I9 J1 K5 L1 L6 L7 M2 M10 N3 N9	
12CU5	A3 B4 C1 D2 D5 E6 G7 I6 I10 J9 K2 L1 L6 L7 M2 M10 N3 N9	
12CU6	A2 B7 C8 D5 E4 G10 I8 I10 J10 K5 L1 L6 L7 M2 M10 N3 N9	
12CX6	A3 B2 B4 C7 D1 E6 G5 I6 I10 J2 K1 L2 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
12CX6	A3 B4 C2 C7 D1 E6 G5 I8 I10 J1 K7 L2 L6 L7 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.

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12CY6	A3 B2 B4 C7 D1 E6 G5 J2 K5 L2 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
12D4	A7 B8 C3 G5 I6 I10 K5 L4 L6 L10 M2 M10 N3 N9	Reject if below 4.
12DA6/UF89	A4 B1 B5 C3 D2 E8 G7 I6 I10 J4 K7 L1 L6 L7 M2 M10 N4 N9	
12DB5	A4 B5 C2 D3 E1 G9 I6 I7 J1 K8 L1 L6 L8 M2 M10 N3 N9	
12DE8 Pentode Unit	A4 B5 C7 C9 D1 E8 G6 I9 I10 J1 K10 L2 L6 L7 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
12DE8 Diode Unit	A4 B5 C2 G3 I6 I10 K9 L3 L6 L9 M2 M10 N3 N9	Reject if below 4.
12DF7	A4 B5 C3 C8 D2 D7 F1 G6 I6 I10 J2 K8 L1 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test. Test P1 and P2.
12DK7 Tetrode Unit	A4 B5 C2 D1 E3 G7 I6 I7 J1 K6 L2 L6 L7 M2 M10 N3 N9	
12DK7 Diode Unit	A4 B5 C2 F9 G6 K8 L3 M2 M10 N3 N9	Test P1 and P2. Reject if below 4.
12DL8 Diode Unit	A4 B5 C8 F1 G9 I6 I10 K7 L4 L6 L7 M10 M2 N3 N9	Test P1 and P2. Reject if below 3.
12DL8 Tetrode Unit	A4 B5 C2 D7 E3 G6 I6 I10 J1 K5 L2 L6 L8 M2 M10 N3 N9	
12DM7	Use 12AX7 Card.	
12DQ6A	A2 B7 C8 D5 E4 G10 I8 I10 J10 K5 L1 L6 L7 M2 M10 N3 N9	
12DQ7	A5 B3 B4 C1 D2 E8 G7 I7 I10 J1 K10 L1 L6 L9 M2 M10 N4 N9	
12DS7 Tetrode Unit	A4 B5 C8 D7 E3 G6 I6 I10 J2 K6 L2 L6 L8 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
*12DS7 Diode Unit	A4 B5 C8 F1 G9 I6 I10 J3 K10 L3 M2 M10 N3 N9	Test P1 and P2. Reject if below 4.
12DT5	A4 B5 C7 D3 E1 G9 I6 J9 K6 L6 L7 L1 M10 M2 N4 N9	
12DT6	A3 B4 C2 D1 D7 E6 G5 I6 I10 J4 K7 L1 M2 M10 N4 N9	Reject if below 3. Depress Special Leakage/Gas Button in gas test.
12DT7	Use 12AX7 Card.	
12DT8	A4 B5 C3 C8 D2 D7 F1 G6 J1 K6 L1 L6 L7 M2 M10 N3 N9	Test P1 and P2. Special Leagage Test.
12DU7 Tetrode Unit	A4 B5 C2 D1 E3 G6 I7 I10 J1 K4 L2 L6 L7 M2 M10 N3 N9	
12DU7 Diode Unit	A4 B5 C2 F9 G7 K6 L4 M2 M10 N3 N9	Test P1 and P2. Reject if below 4.
12DV7 Diode Unit	A4 B5 C1 F3 G2 K6 L4 M2 M10 N4 N9	Test P1 and P2. Reject if below 3.
12DV7 Triode Unit	A4 B5 C8 D7 G6 J1 K9 K10 L2 M2 M10 N4 N9	Depress Special Leakage/Gas Button in gas test.
12DV8 Tetrode Unit	A4 B5 C2 C8 D7 E3 G6 I6 I9 J1 K8 K9 L2 L6 L8 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
12DV8 Diode Unit	A4 B5 C2 C8 F1 G9 I6 I10 K9 L3 M2 M10 N3 N9	Test P1 and P2. Reject if below 2.
12DW5	A4 B5 C7 D3 D6 E1 G9 I6 I10 J8 K1 L6 L7 M2 M10 N4 N9	
12DW7 Triode Unit 1	A4 B5 C8 D7 G6 I6 I10 J2 K6 L1 M2 M10 N4 N9	Depress Special Leakage/Gas Button in gas test.
12DW7 Triode Unit 2	A4 B5 C3 D2 G1 I6 I10 J4 K2 L1 M2 M10 N4 N9	
12DW8 Triode Unit 1	A4 B5 C8 D7 G6 I7 I10 J2 K3 L2 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
12DW8 Triode Unit 2	A4 B5 C3 D2 G1 I8 I10 J1 K6 L2 L6 L7 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
*12DW8 Diode Unit	A4 B5 C8 G9 I6 I10 K4 L3 M2 M10 N3 N9	Reject if below 4.
12DY8 Tetrode Unit	A4 B5 C2 D1 E3 G6 I6 I10 J2 K3 L2 L6 L7 M2 M10 N3 N9	
12DY8 Triode Unit	A4 B5 C7 D9 G8 I6 I10 J1 K10 L2 L6 L7 M2 M10 N3 N9	
12DZ6	A3 B4 C2 C7 D1 E6 G5 I6 I10 J3 K2 L2 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
12DZ6	A3 B4 C2 C7 D1 E6 G5 I7 I9 J1 K8 L2 L6 L7 M2 M10 N3 N9	
12DZ8 Triode Unit	A4 B5 C8 D1 G9 I6 I9 J3 K8 L1 M2 M10 N3 N9	
12DZ8 Pentode Unit	A4 B5 C2 D3 E7 G6 I8 I9 J2 K4 L1 L6 L7 M2 M10 N3 N9	
12EA6	A3 B4 C2 C7 D1 E6 G5 I6 I10 J2 K7 L2 L6 L7 M2 M10 N4 N9	Depress Special Leakage/Gas Button in gas test.
12EC8 Triode Unit	A4 B5 C3 D1 G2 J1 K8 L2 L6 L7 M2 M10 N4 N9	Depress Special Leakage/Gas Button in gas test.
12EC8 Pentode Unit	A4 B5 C8 D9 E7 G6 J3 K10 L2 M2 M10 N4 N9	Depress Special Leakage/Gas Button in gas test.
12ED5	A3 B4 C1 D5 E6 G7 I6 I10 J6 K7 L1 L6 L8 M2 M10 N3 N9	
12EF6	A2 B7 C8 D5 E4 G3 I6 I10 J9 K6 L1 L6 L7 M2 M10 N4 N9	
12EG6	A3 B4 C1 C2 D7 E6 G5 I7 I10 J1 K9 L2 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
12EH5	A3 B4 C1 D2 E6 G7 I7 I10 J1 K6 L1 L6 L8 M2 M10 N3 N9	
12EK6	A3 B4 C2 C7 D1 E6 G5 I6 I10 J1 K6 L2 L6 L7 M2 M10 N3 N9	
12EL6 Diode Unit	A3 B4 C7 F5 G6 I6 I10 K1 L4 M2 M10 N3 N9	Test P1 and P2. Reject if below 2.
12EL6 Triode Unit	A3 B4 C7 D1 G2 I6 I10 J1 K8 L2 M2 M10 N3 N9	
12EM6 Tetrode Unit	A4 B5 C2 D1 E3 G6 I6 I8 J1 K10 L2 L6 L8 M2 M10 N3 N9	
12EM6 Diode Unit	A4 B5 C2 G9 I6 I10 K2 L4 M2 M10 N3 N9	Reject if below 2.
12EN6	A2 B7 C8 D5 E4 G3 I6 I10 J9 K10 L1 L6 L9 M2 M10 N4 N9	
12EQ7 Pentode Unit	A4 B1 B5 B9 C3 D2 E6 G7 J1 K5 L1 M2 M10 N4 N9	
12EQ7 Diode Unit	A4 B5 B9 C3 G8 K3 L4 M2 M10 N4 N9	Reject if below 3.
12EZ6	A3 B4 C2 C7 D1 E6 G5 I6 I10 J3 K8 L2 M2 M10 N3 N9	
12F5GT	A2 B7 C8 D10 G4 I6 I10 J2 K8 L1 M2 M10 N3 N9	Connect external lead to tube cap.
12F8 Diode Unit	A4 B5 C7 F1 G6 K10 L3 M2 M10 N3 N9	Test P1 and P2. Reject if below 4.

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
12F8 Pentode Unit	A4 B5 C7 C9 D8 E2 G3 I6 I10 J1 K8 L2 M2 M10 N3 N9	
12FK6 Diode Unit	A3 B4 C2 F5 G6 I6 I10 K7 L4 L6 L7 M2 M10 N3 N9	Test P1 and P2. Reject if below 4.
12FK6 Triode Unit	A3 B4 C2 D1 G7 I6 I10 J1 K7 L2 M2 M10 N3 N9	
12FK6 Diode Unit	A3 B4 C2 F5 G6 I6 I10 K1 L4 M2 M10 N3 N9	Test P1 and P2. Reject if below 4.
12FK6 Triode Unit	A3 B4 C2 D1 G7 J1 K8 L2 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
12FM6 Diode Unit	A3 B4 C2 F5 G6 K8 L4 L6 L7 M2 M10 N3 N9	Test P1 and P2. Reject if below 4.
12FM6 Triode Unit	A3 B4 C2 D1 G7 J2 K8 K9 L2 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
12FQ8 Triode 1 & 2	A4 B5 C9 D7 F6 G8 I6 I8 J2 K9 K10 L1 M2 M10 N4 N9	Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
12FQ8 Triode 3 & 4	A4 B5 C9 D2 F3 G1 I6 I8 J2 K9 K10 L1 M2 M10 N4 N9	Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
12FR8 Triode Unit	A4 B5 C2 D1 G9 J2 K9 K10 L2 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
12FR8 Pentode Unit	A4 B5 D3 E6 G7 J2 K3 L2 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
12FR8 Diode Unit	A4 B5 C2 G8 I6 I10 K10 L3 M2 M10 N3 N9	Reject if below 2.
12FT6 Triode Unit	A3 B4 C2 D1 G7 I6 I10 J1 K10 L2 M2 M10 N3 N9	
12FT6 Diode Unit	A3 B4 C2 F5 G6 I6 I10 K10 L3 M2 M10 N3 N9	Test P1 and P2. Reject if below 2.
12FX8 Triode Unit	A4 B5 D6 G8 J2 K8 L2 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
***12FX8 Heptode Unit**	A4 B5 C7 D2 D9 E1 G3 I6 I10 J2 K9 K10 L2 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
12GA6	A3 B4 C2 D1 D7 E6 G5 I8 I10 J1 K8 K9 L2 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
12GC6	A2 B7 C3 D5 E4 E8 G10 I7 I10 J10 K5 L1 L6 L7 M2 M10 N3 N9	
12GW6	A2 B7 C8 D5 E4 G10 I7 I10 J10 K4 L1 L6 L7 M2 M10 N3 N9	
12H6	A2 B7 C4 C8 F3 G5 K9 L3 L6 L7 M2 M10 N3 N9	Test P1 and P2. Reject if below 3.
12J5GT	A2 B1 B7 C8 D5 G3 I6 I10 J3 K1 L1 M2 M10 N3 N9	
12J7GT	A2 B1 B7 C5 C8 D10 E4 G3 I6 I10 J6 K8 L1 M2 M10 N3 N9	
12J8 Diode Unit	A4 B5 C7 F8 G9 K10 L3 L6 L9 M2 M10 N3 N9	Test P1 and P2. Reject if below 3.
12J8 Tetrode Unit	A4 B5 C2 D1 E3 G6 I6 I10 J1 K4 L2 L6 L7 M2 M10 N3 N9	
12K5	A3 B4 C1 D2 E5 E6 G7 I6 I10 J4 K6 L2 L6 L7 M2 M10 N3 N9	
12K7GT	A2 B1 B7 C5 C8 D10 E4 G3 I6 I10 J2 K6 L1 M2 M10 N3 N9	
12K8 Triode Unit	A2 B1 B7 C8 D5 G6 I6 I10 J1 K8 L1 L6 L7 M2 M10 N3 N9	
12K8 Hexode Unit	A2 B1 B7 B10 C8 D5 G3 G4 I6 I7 J1 K5 L1 M2 M10 N3 N9	
12L6GT	A7 B1 B2 C8 D5 E4 G3 I6 I10 J9 K7 L1 L6 L8 M2 M10 N3 N9	
12L8	A6 B7 C2 D1 D3 E5 F4 G8 I6 I10 J6 K3 L1 M2 M10 N3 N9	Test P1 and P2.
12Q7GT Diode Unit	A7 B1 B2 C8 F4 G5 K10 L3 M2 M10 N3 N9	Test P1 and P2. Reject if below 2.
12Q7GT Triode Unit	A7 B1 B2 C8 D10 G3 I6 I10 J2 K8 L1 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
12R5	A3 B4 C1 D2 D5 E6 G7 I6 I9 J9 K2 L1 L6 L7 M2 M10 N3 N9	
12S7/UAF42 Diode Unit	A1 B8 C7 G3 K9 L3 M2 M10 N3 N9	Reject if below 3. Use Special Adapter.
12S7/UAF42 Pentode Unit	A1 B8 C7 D6 E5 G2 I6 I10 J3 K3 L1 M2 M10 N3 N9	Use Special Adapter.
12S8GT Triode Unit	A7 B8 C2 D10 G6 I6 I10 J2 K9 L1 M2 M10 N3 N9	
12S8GT Diode Unit 1	A8 B7 C5 G3 I6 I10 K1 L4 M2 M10 N3 N9	Reject if below 3.
12S8GT Diode Unit 2-3	A8 B7 C2 F1 G4 I6 I10 K2 L4 M2 M10 N3 N9	Test P1 and P2. Reject if below 2.
12SA7, GT	A2 B1 B7 C6 C8 D5 G3 G4 I6 I10 J6 K6 L1 L6 L7 M2 M10 N3 N9	
12SC7	A7 B1 B8 C6 D3 D4 F2 G5 I6 I10 J2 K9 L1 M2 M10 N3 N9	Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
12SF5GT	A7 B1 B8 C2 D3 G5 I7 I9 J2 K8 L1 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
12SF7 Diode Unit	A7 B1 B8 C3 G5 K10 L3 M2 M10 N3 N9	Reject if below 2.
12SF7 Pentode Unit	A7 B1 B8 C3 D2 E4 G6 I6 I10 J2 K4 L1 M2 M10 N3 N9	
12SG7	A7 B1 B2 C3 D4 E6 G8 I6 I10 J2 K5 L1 L6 L7 M2 M10 N3 N9	
12SH7	A7 B1 B2 C3 C5 D4 E6 G8 I6 I10 J2 K6 L1 L6 L7 M2 M10 N3 N9	
12SJ7, GT	A7 B1 B2 C3 C5 D4 E6 G8 I7 I10 J6 K7 L1 M2 M10 N3 N9	
12SK7, GT	A7 B1 B2 C3 C5 D4 E6 G8 I6 I10 J4 K9 L1 L6 L7 M2 M10 N3 N9	
12SL7, GT	A7 B8 C3 C6 D1 D4 F2 G5 I6 I10 J2 K8 L1 M2 M10 N3 N9	Test P1 and P2.
***12SN7GTA**	A7 B8 C3 C6 D1 D4 F2 G5 I6 I10 J3 K1 L1 M2 M10 N3 N9	Test P1 and P2.
12SQ7, GT Diode Unit	A7 B1 B8 C3 F4 G5 K10 L3 M2 M10 N3 N9	Test P1 and P2. Reject if below 2.
12SQ7 Triode Unit	A7 B1 B8 C3 D2 G6 I6 I10 J2 K9 L1 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
12SR7, GT Triode Unit	A7 B1 B8 C3 D2 G6 I6 I10 J7 K8 L1 M2 M10 N3 N9	

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
12SR7 Diode Unit	A7 B1 B8 C3 F4 G5 K8 L4 L6 L7 M2 M10 N3 N9	Test P1 and P2. Reject if below 3.
12SW7 Diode Unit	A7 B1 B8 C3 F4 G5 K8 L3 L6 L7 M2 M10 N3 N9	Test P1 and P2. Reject if below 4.
12SW7 Triode Unit	A7 B1 B8 C3 D2 G6 I6 I10 J7 K7 L1 M2 M10 N3 N9	
12SX7GT	A7 B8 C3 C6 D1 D4 F2 G5 I6 I10 J3 K1 L1 M2 M10 N3 N9	Test P1 and P2.
12SY7	A2 B1 B7 C6 C8 D5 G3 G4 I6 I10 J6 K7 L1 L6 L7 M2 M10 N3 N9	
12U7	A4 B5 C3 C8 D2 D7 F1 G6 I6 I10 J1 K7 K8 L2 M2 M10 N3 N9	Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
12V6GT	A7 B2 C8 D5 E4 G3 I6 I7 J1 K1 L1 L6 L7 M2 M10 N3 N9	
12W6GT	A2 B7 C8 D5 E4 G3 I6 I10 J9 K1 L1 L6 L7 M2 M10 N3 N9	
12X4	A3 B4 C7 F1 G6 K6 L5 L6 L10 M2 M10 N3 N9	Test P1 and P2. Reject if below 4.
12Z3	A1 B4 C3 G2 I6 I10 K6 L4 L6 L10 M2 M10 N3 N9	Reject if below 3.
13CM5	A2 B7 C8 D5 E4 G10 I6 I10 J10 K7 L1 L6 L8 M2 M10 N4 N9	
13DE7 Triode Unit 1	A4 B5 C8 D7 G6 I6 I10 J7 K10 L1 L6 L7 M1 M10 N3 N9	
13DE7 Triode Unit 2	A4 B5 C9 D2 G1 I6 I10 J10 K9 L1 L6 L8 M1 M10 N3 N9	
13DR7 Triode Unit 1	A4 B5 C8 D7 G6 J1 K6 L1 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
13DR7 Triode Unit 2	A4 B5 C9 D2 G1 J7 K6 L1 L6 L7 M2 M10 N4 N9	
13EM7 Triode Unit 1	A7 B8 C6 D4 G5 I6 I10 J2 K6 K7 L1 M1 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
13EM7 Triode Unit 2	A7 B8 C3 D1 G2 I6 I10 J10 K4 L1 L6 L7 M1 M10 N3 N9	
13FD7 Triode Unit 1	A4 B5 C8 D7 G6 I6 I10 J2 K6 K7 L1 M2 M10 N4 N9	Depress Special Leakage/Gas Button in gas test.
13FD7 Triode Unit 2	A4 B5 C9 D2 D3 G1 I6 I10 J10 K4 L1 L6 L7 M2 M10 N4 N9	
14A4	A1 B8 C7 D6 G2 I6 I10 J4 K2 K3 L1 M2 M10 N4 N9	
14A5	A1 B8 C7 D6 E3 G2 I8 I10 J1 K1 L1 M2 M10 N5 N9	
14A7	A1 B5 B8 C4 C7 D6 E3 G2 I6 I10 J2 K2 L1 M2 M10 N3 N9	
14AF7	A8 B1 C2 C7 D4 D5 F3 G6 I6 I10 J1 K1 L1 M2 M10 N3 N9	Test P1 and P2.
14B6 Diode Unit	A8 B1 C4 C7 F5 G6 I6 I10 K10 L3 M2 M10 N3 N9	Test P1 and P2. Reject if below 2.
14B6 Triode Unit	A8 B1 C4 C7 D3 G2 I6 I10 J2 K9 L1 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
14B8	A1 B8 C7 D4 G2 G3 G5 G6 I6 I10 J7 K8 L1 L6 L7 M2 M10 N5 N9	
14C5	A1 B8 C7 D6 E3 G2 I6 I10 J8 K8 L1 L6 L7 M2 M10 N5 N9	

TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
14C7	A8 B1 B5 C4 C7 D6 E3 G2 I6 I10 J6 K7 L1 M2 M10 N3 N9	
14E6 Diode Unit	A1 B8 C7 F6 G5 I6 I10 K10 L3 M2 M10 N5 N9	Test P1 and P2. Reject if below 2.
14E6 Triode Unit	A1 B8 C7 D3 G2 I6 I10 J6 K10 L1 L6 L7 M2 M10 N5 N9	
14E7 Diode Unit	A1 B8 C7 F4 G3 I6 I10 K10 L3 M2 M10 N5 N9	Test P1 and P2. Reject if below 2.
14E7 Pentode Unit	A1 B8 C7 D6 E5 G2 I6 I10 J2 K6 L1 M2 M10 N5 N9	
14F7	A8 B1 C2 C7 D4 D5 F3 G6 I6 I10 J2 K8 L1 M2 M10 N3 N9	Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
14F8	A2 B7 C4 C5 D1 D8 F3 G6 J3 K5 L1 M2 M10 N3 N9	Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
14H7	A1 B5 B8 C4 C7 D6 E3 G2 I6 I10 J2 K5 L1 L6 L7 M2 M10 N5 N9	
14J7 Triode Unit	A1 B8 C7 D4 G3 I6 I10 J3 K7 L1 M2 M10 N5 N9	
14J7 Heptode Unit	A1 B8 C4 C7 D6 E5 G2 I6 I10 J3 K5 L1 M2 M10 N5 N9	
14L7/UBC41 Diode Unit	A1 B8 C7 F6 G5 K2 K3 L4 M1 M10 N4 N9	Use Special Adapter. Test P1 and P2. Reject if below 4.
14L7/UBC41 Triode Unit	A1 B8 C7 D3 G2 J2 K8 L1 M1 M10 N4 N9	Use Special Adapter. Depress Special Leakage/Gas Button in gas test.
14N7	A1 B8 C2 C7 D4 D5 F3 G6 I6 I10 J3 K1 L1 M2 M10 N5 N9	Test P1 and P2.
14Q7	A8 B1 B5 B6 C7 D4 G2 G3 I6 I10 J2 K6 L1 L6 L7 M2 M10 N3 N9	
14R7 Diode Unit	A8 B1 C7 F3 G4 I6 I10 K1 L1 L4 M2 M10 N8 N9	Test P1 and P2. Reject if below 1.
14R7 Pentode Unit	A8 B1 C7 D6 E5 G2 I6 I10 J2 K1 L1 M2 M10 N3 N9	
14S7 Triode Unit	A1 B8 C7 D4 G3 I6 I10 J3 K7 L1 M2 M10 N5 N9	
14S7 Heptode Unit	A1 B8 C4 C7 D6 E5 G2 I6 I10 J3 K1 L1 M2 M10 N5 N9	
14V7	A1 B5 B8 C4 C7 D6 E3 G2 I8 I10 J1 K5 L1 L6 L7 M2 M10 N3 N9	
14W7	A1 B8 C4 C5 C7 D6 E3 G2 I8 I10 J1 K6 L1 L6 L7 M2 M10 N5 N9	
14X7 Diode Unit	A1 B8 C4 C7 F6 G5 I6 I10 K7 L3 L6 L8 M2 M10 N5 N9	Test P1 and P2. Reject if below 2.
14X7 Triode Unit	A1 B8 C4 D3 G2 I6 I10 J2 K9 L1 M2 M10 N5 N9	Depress Special Leakage/Gas Button in gas test.
14Y4	A1 B8 C7 F3 G6 K6 L5 L6 L10 M2 M10 N5 N9	Test P1 and P2. Reject if below 4.
15A6/PL83	A4 B5 C3 C6 D2 E1 G7 I6 I10 J3 K6 K7 L1 L6 L8 M5 M9 N2 N8	
15CW5	A4 B5 C3 D2 E9 G7 I6 I10 J9 K6 L1 L6 L8 M5 M9 N1 N8	

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
15DQ8/PCL84 Pentode Unit	A4 B5 C7 D8 E9 G6 J1 K5 K6 L1 L6 L7 M4 M9 N1 N8	
15DQ8/PCL84 Triode Unit	A4 B5 C3 D1 G2 J2 K6 L1 M4 M9 N1 N8	Depress Special Leakage/Gas Button in gas test.
15EW6	A3 B4 B7 C2 D1 E6 G5 I7 I9 J1 K7 L1 L6 L8 M5 M9 N1 N8	Depress Special Leakage/Gas Button in gas test.
16A5/PL82	A4 B5 C3 D2 E9 G7 I6 I10 J9 K1 L1 L6 L7 M3 M9 N1 N8	
16A8/PCL82 Triode Unit	A4 B5 C8 D1 G9 I6 I10 J2 K5 K6 L1 M5 M9 N2 N8	Depress Special Leakage/Gas Button in gas test.
16A8/PCL82 Pentode Unit	A4 B5 C2 D3 F7 G6 I6 I10 J9 K3 L1 L6 L7 M5 M9 N2 N8	Depress Special Leakage/Gas Button in gas test.
17AV5GA	A2 B7 C3 D1 E8 G5 I7 I9 J10 K6 L1 L6 L7 M4 M9 N2 N8	
17AX4GT	A7 B8 C3 G5 I6 I10 K1 L4 L6 L9 M4 M9 N2 N8	Reject if below 4.
17BQ6GTB	A2 B7 C8 D5 E4 G10 I8 I10 J10 K5 L1 L6 L7 M4 M9 N2 N8	
17C5	A3 B4 C1 D2 D5 E6 G7 I6 I10 J9 K2 L1 L6 L7 M4 M9 N2 N8	
17C8/UBF80 Diode Unit	A4 B5 C3 F7 G8 I6 I10 K1 L4 M3 M9 N2 N8	Test P1 and P2. Reject if below 3.
17C8/UBF80 Pentode Unit	A4 B5 B9 C3 D2 E1 G6 I6 I10 J6 K3 K4 L1 M3 M9 N2 N8	
17CA5	A3 B4 C1 D2 D5 E6 G7 I6 I10 J5 K1 L1 L6 L7 M3 M9 N2 N8	
17CU5	A3 B4 C1 D2 D5 E6 G7 I6 I10 J9 K2 L1 L6 L7 M3 M9 N2 N8	
17D4	A7 B8 C3 G5 I6 I10 K5 L4 L6 L10 M4 M9 N2 N8	Reject if below 4.
17DE4	A7 B8 C3 G5 I6 I10 K7 L4 L6 L10 M3 M9 N2 N8	Reject if below 4.
17DQ6A	A2 B7 C8 D5 E4 G10 I7 I9 J10 K5 L1 L6 L7 M3 M9 N2 N8	
17EW8	A4 B5 B9 C3 C8 D2 D7 F1 G6 I7 I8 J1 K9 L1 L6 L8 M3 M9 N2 N8	Test P1 and P2.
17GW6	A2 B7 C8 D5 E4 G10 I7 I10 J10 K4 L1 L6 L7 M3 M9 N2 N8	
17H3	A4 B5 C1 G3 G8 I7 I10 K8 L4 L6 L10 M4 M9 N2 N8	Reject if below 4.
17L6GT	A2 B7 C8 D5 E4 G3 I6 I10 J8 K10 L1 L6 L9 M4 M9 N2 N8	
17N8/UBF80 Diode Unit	A4 B5 C3 F7 G8 I6 I10 K1 L4 M3 M9 N2 N8	Test P1 and P2. Reject if below 3.
17N8/UBF80 Pentode Unit	A4 B5 B9 C3 D2 E1 G6 I6 I10 J6 K3 K4 L1 M3 M9 N2 N8	
17R5	A3 B4 C1 D2 E6 G7 I6 I10 J9 K10 L1 L6 L9 M4 M9 N2 N8	
17W6	A2 B7 C8 D5 E4 G3 I6 I10 J9 K1 L1 L6 L7 M3 M9 N2 N8	
17Z3/PY81	A4 B5 C10 G9 I6 I10 K6 L4 L6 L10 M3 M9 N2 N8	Reject if below 4.
18A5	A2 B7 C3 D1 E8 G5 I8 I10 J10 K10 L1 L6 L8 M5 M9 N3 N8	
18DZ8 Triode Unit	A4 B5 C8 D1 G9 I6 I9 J3 K8 L1 M5 M9 N3 N8	
18DZ8 Pentode Unit	A4 B4 C2 D3 E7 G6 I8 I9 J2 K4 L1 L6 L7 M5 M9 N3 N8	

TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
18FW6	A3 B4 C2 C7 D1 E6 G5 I7 I10 K7 L1 L6 L7 M3 M9 N2 N8	
***18FX6**	A3 B4 C2 C7 D1 G5 G6 I7 I10 J1 K4 L1 L6 L7 M3 M9 N2 N8	
18FY6 Diode Unit	A3 B4 C2 F5 G6 I6 I10 K3 L4 M3 M9 N2 N8	Test P1 and P2. Reject if below 4.
***18FY6** Triode Unit	A3 B4 C2 D1 G7 I6 I10 J2 K10 L1 L6 L7 M3 M9 N2 N8	Depress Special Leakage/Gas Button in gas test.
19AJ8/UCH81 Triode Unit	A4 B1 B2 B5 B6 B7 C3 D9 G8 I8 I10 J1 K7 K8 L1 L6 L7 M5 M9 N3 N8	
19AJ8/UCH81 Heptode Unit	A4 B5 B7 B8 B9 C3 D2 E1 G6 I6 I9 J4 K3 L1 M5 M9 N3 N8	
19AQ5	A3 B4 C2 D1 E6 G5 I6 I10 J8 K8 L1 L6 L7 M4 M9 N3 N8	
19AU4	A7 B8 C3 G5 I6 I10 K5 L4 L6 L10 M5 M9 N3 N8	Reject if below 4.
19BG6G, GA	A7 B2 C3 D5 E8 G10 I6 I10 J9 K10 L1 L6 L8 M5 M9 N3 N8	
19C8 Diode Unit	A4 B5 C3 C7 F2 G1 H6 I6 I10 K7 L3 L6 L8 M4 M9 N3 N8	Test P1, P2 and P3. Reject if below 3.
19C8 Triode Unit	A4 B5 C7 D8 G9 I6 I10 J2 K8 L1 M4 M9 N3 N8	Depress Special Leakage/Gas Button in gas test.
19CL8 Tetrode Unit	A4 B5 C8 D9 E7 G6 I6 I10 J2 K3 L1 L6 L7 M4 M9 N3 N8	
19CL8 Triode Unit	A4 B5 C3 D1 G2 I6 I10 J2 K1 L1 L6 L7 M4 M9 N3 N8	
19D8	Use 19AJ8 Data.	
19DE7 Triode Unit 1	A4 B5 C8 D7 G6 I6 I10 J7 K10 L1 L6 L7 M5 M9 N4 N8	
19DE7 Triode Unit 2	A4 B5 C9 D2 G1 I6 I10 J10 K9 L1 L6 L8 M5 M9 N4 N8	
19EA8 Triode Unit	A4 B5 C8 D9 G1 I6 I9 J1 K1 L1 L6 L7 M4 M9 N3 N8	
19EA8 Pentode Unit	A4 B5 C7 D2 E3 G6 I6 I10 J2 K3 L1 L6 L7 M4 M9 N3 N8	
19EZ8	A5 B4 C1 D2 D7 D9 F6 G3 H8 I6 I10 J2 K6 K7 L1 L6 L7 M4 M9 N3 N8	Test P1, P2 and P3. Reject if below 4.
19J6	A3 B4 C7 D5 D6 F1 G2 I7 I9 J1 K5 L1 L6 L7 M5 M9 N3 N8	Test P1 and P2.
19T8 Diode Unit	A4 B5 C3 C7 F2 G6 H1 I6 I10 K7 L3 L6 L8 M5 M9 N3 N8	Test P1, P2 and P3. Reject if below 3.
19T8 Triode Unit	A4 B5 C7 D8 G9 I6 I10 J2 K8 L1 M5 M9 N3 N8	Depress Special Leakage/Gas Button in gas test.
19V8 Dual Diode	A4 B5 C3 C8 F2 G7 I6 I10 K1 L3 L6 L7 M4 M9 N3 N8	Test P1 and P2. Reject if below 4.
19V8 Diode Unit	A5 B4 C3 G9 I6 I10 K2 L4 M4 M9 N3 N8	Reject if below 2.
19V8 Triode Unit	A4 B5 C3 D6 G1 I7 I10 J1 K7 L1 M4 M9 N3 N8	
19X3/PY80	A4 B5 C3 G9 I6 I10 K4 K5 L4 L6 L10 M5 M9 N4 N8	Reject if below 4.
19X8 Pentode Unit	A4 B5 C1 C6 D7 E8 G9 I6 I8 J1 K6 L1 L6 L7 M5 M9 N3 N8	
19X8 Triode Unit	A4 B5 C6 D2 G3 I7 I9 J1 K4 L1 L6 L7 M5 M9 N3 N8	
19Y3/PY82	A4 B5 C3 G9 I6 I10 K2 K3 L4 L6 L10 M5 M9 N5 N8	Reject if below 4.
20EQ7 Diode Unit	A4 B5 B9 C3 G8 K3 L4 M5 M9 N5 N8	Reject if below 3.

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
20EQ7 Pentode Unit	A4 B1 B5 B9 C3 D2 E6 G7 J1 K5 L1 M5 M9 N5 N8	
20EZ7	A1 B2 C4 C9 D5 D8 F6 G7 I6 I10 J2 K8 L1 M5 M9 N5 N8	Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
21A8/PL81	A4 B5 C3 C9 D2 E8 G10 I6 I10 J10 K3 L1 L6 L7 M2 M9 N4 N8	
21EX6	A2 B7 C3 D5 E8 G10 I6 I7 J1 K2 L1 L6 L7 M2 M9 N3 N8	
22DE4	A7 B8 C3 G5 I6 I10 K7 L4 L6 L10 M2 M9 N3 N8	Reject if below 4.
24A	A1 B5 C4 D10 E3 G2 I6 I10 J4 K9 L1 M2 M6 N4 N6	
25A6, GT	A2 B7 C8 D5 E4 G3 J10 K6 L1 M5 M10 N1 N8	
25A7G, GT Diode Unit	A2 B7 C1 G6 I6 I10 K7 L4 L6 L10 M5 M10 N1 N8	Reject if below 4.
25A7GT Pentode Unit	A2 B7 C8 D5 E4 G3 J4 K6 L1 L6 L7 M5 M10 N1 N8	
25AC5G, GT	A2 B7 C8 D5 G3 I7 I9 J1 K9 L1 M5 M10 N1 N8	
25AU4	A7 B8 C3 G5 I6 I10 K4 L4 L6 L10 M1 M9 N5 N8	Reject if below 4.
25AV5GT, GA	A6 A7 B2 C3 C4 D1 E8 G5 I7 I9 J10 K6 L1 L6 L7 M1 M9 N5 N8	
25AX4GT	A7 B8 C3 G5 I6 I10 K8 L4 L6 L10 M1 M9 N5 N8	Reject if below 4.
25B6G	A2 B7 C8 D5 E4 G3 I9 I10 J1 K6 L1 L6 L7 M5 M10 N1 N8	
25BK5	A4 B5 C6 D3 E8 G1 I6 I10 J5 K2 K3 L1 L6 L7 M5 M10 N1 N8	
25BQ6GT, GBT/25CU6	A2 B7 C8 D5 E4 G10 I8 I10 J10 K5 L1 L6 L7 M1 M9 N5 N8	
25C5	A3 B4 C1 D2 E6 G7 I6 I10 J9 K2 L1 L6 L7 M5 M10 N1 N8	
25C6G, GA	A2 B7 C8 D5 E4 G3 I6 I10 J10 K3 L1 L6 L7 M4 M10 N1 N8	
25CA5	A3 B4 C1 D2 D5 E6 G7 I6 I10 J7 K1 L1 L6 L7 M1 M9 N5 N8	
25CD6, GA GB	A2 B7 C3 D5 E8 G10 I6 I7 J10 K5 L1 L6 L7 M1 M9 N5 N8	
25CU6	A2 B7 C8 D5 E4 G10 I8 I10 J10 K5 L1 L6 L7 M1 M9 N5 N8	
25D4	A7 B8 C3 G5 I6 I10 K5 L4 L6 L10 M1 M9 N5 N8	Reject if below 4.
25DN6	A2 B7 C3 D5 E8 G10 I8 I10 J10 K4 L1 L6 L7 M1 M9 N5 N8	
25DQ6	A2 B7 C8 D5 E4 G10 I7 I10 J10 K5 L1 L6 L7 M1 M9 N5 N8	
25DT5	A4 B5 C7 D3 E1 G9 I6 I10 J9 K6 L1 L6 L7 M1 M9 N5 N8	
25E5/PL36	A2 B7 C8 D5 E4 G10 I6 I10 J10 K7 L1 L6 L7 M4 M10 N1 N8	
25E6	Use 25C6 Data.	
25EC6	A2 B7 C3 D5 E8 G10 I6 I9 J10 K7 K8 L1 L6 L8 M1 M9 N5 N8	
25EH5	A3 B4 C1 D2 E6 G7 I7 I10 J1 K6 L1 L6 L8 M1 M9 N5 N8	
25F5	A3 B4 C1 D2 D5 E6 G7 I6 I10 J9 K4 L1 L6 L7 M1 M9 N5 N8	

TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
25FY8 Triode Unit	A4 B5 C8 D1 G9 J2 K5 L1 M1 M9 N5 N8	
25FY8 Pentode Unit	A4 B5 C2 D3 E7 G6 I8 I10 J1 K2 L1 L6 L7 M1 M9 N5 N8	
25L6, GT	A2 B1 B7 C8 D5 E4 G3 I6 I10 J9 K7 L1 L6 L8 M1 M9 N5 N8	
25U4GT	A7 B8 C3 G5 I6 I10 K5 L4 L6 L10 M5 M10 N1 N8	Reject if below 3.
25W4GT	A7 B8 C3 G5 I6 I10 K5 L4 L6 L10 M1 M9 N5 N8	Reject if below 4.
25W6GT	A2 B7 C8 D5 E4 G3 I6 I10 J9 K1 L1 L6 L7 M1 M9 N5 N8	
25Y5	A1 B6 C3 C4 F2 G5 I6 I10 K6 L4 L6 L9 M5 M10 N1 N8	Test P1 and P2. Reject if below 4.
25Z5	A1 B6 C3 C4 F2 G5 I6 I10 K7 L4 L6 L10 M1 M9 N5 N8	Test P1 and P2. Reject if below 4.
25Z6G, GT	A2 B7 C4 C8 F3 G5 I6 I10 K7 L4 L6 L10 M1 M9 N5 N8	Test P1 and P2. Reject if below 4.
26A6	A3 B4 C2 C7 D1 E6 G5 I8 I10 J1 K6 L1 L6 L7 M1 M9 N5 N8	
26A7GT	A6 B7 C2 D1 D3 E5 F8 G4 I6 I10 J5 K1 L2 M3 M10 N1 N8	Test P1 and P2.
26C6 Diode Unit	A3 B4 C2 F5 G6 I6 I10 K10 L3 M4 M10 N2 N8	Test P1 and P2. Reject if below 2.
26C6 Triode Unit	A3 B4 C2 D1 G7 I8 I10 J6 K7 L1 M4 M10 N2 N8	
26D6	A3 B4 C2 D1 G5 G6 G7 I6 I10 J6 K7 L1 L6 L7 M4 M10 N2 N8	
26Z5W	A4 B5 C3 C8 F1 G6 I6 I10 K8 L4 L6 L10 M4 M10 N1 N8	Test P1 and P2. Reject if below 2.
27	A1 B5 C4 D3 G2 I6 I9 J8 K9 L1 M4 M6 N2 N6	
28D7, W	A1 B8 C6 D2 D7 E3 F4 G5 I6 I10 J3 K2 L2 M3 M10 N1 N8	Test P1 and P2. Reject if below 4.
31A3/UY41	A1 B8 C7 G2 I6 I10 K8 L4 L6 L10 M1 M10 N2 N8	Use Special Adapter. Reject if below 4.
32	A1 B4 D10 E3 G2 J8 K3 L1 M3 M6 N2 N6	Use WG-337A-4 Adapter.
32A8 Triode Unit	A4 B5 C8 D1 G9 J2 K7 L1 M3 M10 N2 N8	Depress Special Leakage/Gas Button in gas test.
32A8 Pentode Unit	A4 B5 C2 D3 E7 G6 I6 I7 J1 K4 L1 I6 I7 M3 M10 N2 N8	
32ET5	A3 B4 C1 D2 E6 G7 I6 I10 J9 L1 L6 L7 M2 M10 N3 N8	
34GD5	A3 B4 C1 D2 D5 E6 G7 I8 I9 J1 K5 L1 L6 L7 M5 M8 N1 N7	
35A5	A1 B8 C7 D6 E3 G2 I6 I10 J9 K3 L1 L6 L7 M1 M10 N5 N8	
35B5	A3 B4 C2 D1 E6 G5 I6 I10 J9 K4 L1 L6 L7 M1 M10 N5 N8	
35C5	A3 B4 C1 D2 D5 E6 G7 I6 I10 J9 K4 L1 L6 L7 M1 M10 N5 N8	
35CD6GA	A2 B7 C3 D5 E8 G10 I6 I7 J10 K5 L1 L6 L7 M5 N1 N7 N8	
35DZ8 Triode Unit	A4 B5 C8 D1 G9 I6 I9 J3 K8 L1 M1 M10 N5 N8	
35DZ8 Pentode Unit	A4 B5 C2 D3 E7 G6 I8 I9 J2 K4 L1 L6 L7 M1 M10 N5 N8	
***35EH5**	A3 B4 C1 D2 E6 G7 I7 I10 J1 K6 L1 L6 L8 M1 M10 N5 N8	

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
35GL6	A3 B4 C1 D2 E5 G7 I6 I10 J9 K7 L1 L6 L8 M1 M10 N5 N8	
35L6GT	A7 B2 C8 D5 E4 G3 I6 I10 J9 K4 L1 L6 L7 M1 M10 N5 N8	
35W4	A3 B4 C7 G5 I6 I10 K5 L4 L6 L10 M1 M10 N5 N8	Reject if below 4.
35Y4	A1 B8 C7 G2 I6 I10 K3 L4 L6 L10 M1 M10 N5 N8	Reject if below 4.
35Z3	A1 B8 C7 G2 I6 I10 K4 L4 L6 L10 M1 M10 N5 N8	Reject if below 4.
35Z4GT	A2 B7 C8 G5 I6 I10 K3 L4 L6 L10 M1 M10 N5 N8	Reject if below 4.
35Z5GT	A2 B7 C8 G5 I6 I10 K5 L4 L6 L10 M1 M10 N5 N8	Reject if below 4.
36AM3	A3 B4 C7 G5 I6 I10 K5 L4 L6 L10 M1 M10 N5 N8	Reject if below 4.
38A3/UY85	A4 B5 C3 G9 I6 I10 K5 L4 L6 L10 M5 M8 N3 N7	Reject if below 4.
41	A1 B6 C5 D4 E3 G2 I6 I10 J9 K5 L1 M5 M10 N2 N9	
42	A1 B6 C5 D4 E3 G2 I6 I10 J9 K5 L1 M3 M10 N1 N9	
43	A1 B6 C5 D4 E3 G2 J10 K6 L1 M5 M10 N1 N8	Use Adaoter WG-377A-6.
45	A4 B1 D3 G2 J10 K7 L1 M2 M6 N4 N6	
45A5/UL41	A1 B8 C3 C7 D6 E5 G2 I6 I10 J6 K8 L1 L6 L8 M5 M7 N1 N6	Use Special Adapter.
45B5	A4 B5 C3 D2 E9 G7 I6 I10 J9 K6 L1 L6 L8 M5 M7 N1 N6	
45Z3	A1 B7 C4 G2 I6 I10 K8 L4 L6 L10 M1 M7 N5 N7	Reject if below 4.
45Z5GT	A2 B7 C8 G5 I6 I10 K5 L4 L6 L10 M5 M7 N1 N6	Reject if below 4.
47	A1 B5 D3 E4 G2 J7 K4 L1 L6 L7 M4 M6 N2 N6	Use Adapter WG-377A-5.
48A8/UCL82 Triode Unit	A4 B5 C8 D1 G9 I6 I10 J2 K6 L1 M5 M7 N5 N6	Depress Special Leakage/Gas Button in gas test.
48A8/UCL82 Pentode Unit	A4 B5 C2 D3 E7 G6 I6 I10 J7 K3 L1 L6 L7 M5 M7 N5 N6	
50A5	A1 B8 C7 D6 E3 G2 I6 I10 J9 K1 L1 L6 L7 M5 M7 N5 N6	
50B5	A3 B4 C2 D1 E6 G5 I6 I10 J9 K2 L1 L6 L7 M5 M7 N5 N6	
50BK5	A4 B5 C6 D3 E8 G1 I6 I10 J5 K3 L1 L6 L7 M5 M7 N5 N6	
50BM8/UCL82 Triode Unit	A4 B5 C8 D1 G9 J2 K7 L1 M5 M7 N5 N6	Depress Special Leakage/Gas Button in gas test.
50BM8/UCL82 Pentode Unit	A4 B5 C2 D3 E7 G6 I6 I7 J1 K4 L1 L6 L7 M5 M7 N5 N6	
50C5	A3 B4 C1 D2 E6 G7 I6 I10 J9 K2 L1 L6 L7 M5 M7 N5 N6	
50C6G, GA	A2 B7 C8 D5 E4 G3 I6 I10 J10 K3 L1 L6 L7 M4 M7 N5 N6	
50CA5	A3 B4 C1 D2 D5 E6 G7 I6 I10 J5 K1 L1 L6 L7 M5 M7 N5 N6	
50CD6G	A2 B7 C3 D5 E8 G10 I6 I7 J10 K5 L1 L6 L7 M4 M7 N5 N6	
50DC4	A3 B4 C7 G5 I6 I10 K6 L4 L6 L10 M5 M7 N5 N6	Reject if below 4.
50EH5	A3 B4 C1 D2 E6 G7 I7 I10 J1 K6 L1 L6 L8 M5 M7 N5 N6	
50FE5	A2 B7 C8 D5 E4 G3 I6 I8 J1 K3 L1 L6 L7 M5 M7 N5 N6	
50FY8 Triode Unit	A4 B5 C8 D1 G9 J2 K5 L1 M5 M7 N5 N6	Depress Special Leakage/Gas Button in gas test.
50FY8 Pentode Unit	A4 B5 C2 D3 E7 G6 I8 I10 J1 L1 L6 L7 M5 M7 N5 N6	
50L6GT	A2 B7 C8 D5 E4 G3 I6 I10 J9 K7 L1 L6 L8 M5 M7 N5 N6	
50X6	A1 B8 C2 C7 F3 G6 I6 I10 K7 L4 L6 L10 M5 M7 N5 N6	Test P1 and P2. Reject if below 4.
50Y6GT	A2 B7 C4 C8 F3 G5 I6 I10 K7 L4 L6 L10 M5 M7 N5 N6	Test P1 and P2. Reject if below 4.
50Y7GT	A2 B7 C4 C8 F3 G5 I6 I10 K7 L4 L6 L10 M5 M7 N5 N6	Test P1 and P2. Reject if below 4.
53	A1 B7 C4 D3 D5 F2 G6 I6 I10 J4 K7 L1 M4 M6 N2 N6	Test P1 and P2.
56	A1 B5 C4 D3 G2 I6 I10 J8 K8 L1 M4 M6 N2 N6	
58	A1 B6 C4 C5 D10 E3 G2 I6 I10 J6 K6 K7 L1 M4 M6 N2 N6	
60E3	A3 B4 C7 G5 I6 I10 K5 L4 L6 L10 M5 M9 N5 N7	Reject if below 4.
70L7 Diode Unit	A2 B7 C1 G8 I6 I10 K6 L1 L4 L6 L10 M5 M10 N5 N7	Reject if below 4.
70L7 Pentode Unit	A2 B7 C6 D5 E4 G3 I6 I7 J1 K4 L1 L6 L7 M5 M10 N5 N7	
75 Diode Unit	A1 B6 C5 F3 G4 K10 L3 M5 M10 N2 N9	Test P1 and P2. Reject if below 2.
75 Triode Unit	A1 B6 C5 D10 G2 I6 I10 J2 K9 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
76	A1 B5 C4 D3 G2 I6 I10 J8 K8 L1 M5 M10 N2 N9	
78	A1 B6 C4 C5 D10 E3 G2 I6 I10 J2 K7 L1 M5 M10 N2 N9	
80	A4 B1 F2 G3 K5 L5 L6 L10 M3 M10 N1 N9	Test P1 and P2. Reject if below 4.
83V	A1 B4 F2 G3 K7 L4 L6 L10 M5 M10 N2 N9	Test P1 and P2. Reject if below 4.
84/6Z4	A1 B5 C4 F2 G3 K7 L4 L6 L9 M5 M10 N2 N9	Test P1 and P2. Reject if below 4.
85 Triode Unit	A1 B6 C5 D10 G2 I6 I10 J9 K9 L1 M5 M10 N2 N9	
85 Diode Unit	A1 B6 C5 F3 G4 I6 I10 K10 L3 M5 M10 N2 N9	Test P1 and P2. Reject if below 2.
101F	A2 B3 D1 G4 J9 K6 L1 L6 L7 M4 M6 N1 N6	Use WG-337A-4 Adapter. Key tube to put locating pin between large socket pins.
117L7/M7GT Diode Unit	A2 B7 C1 G6 I6 I10 K4 L4 L6 L10 M4 M10 N2 N6	Reject if below 4.
117L7/M7GT Pentode Unit	A2 B7 C8 D4 E5 G3 I6 I10 J8 K9 L1 L6 L8 M4 M10 N2 N6	
117N7GT Pentode Unit	A7 B2 C6 D4 E5 E8 G3 J8 K4 L6 L9 M4 M10 N2 N6	Reject if below 4.
117N7GT Diode Unit	A2 B7 G8 K4 L4 L6 L10 M4 M10 N2 N6	Reject if below 4.
117P7GT Diode Unit	A2 B7 G8 K4 L4 L6 L10 M4 M10 N2 N6	Reject if below 4.
117P7GT Pentode Unit	A2 B7 C6 D4 E5 G3 I6 I10 J8 K9 L1 L6 L8 M4 M10 N2 N6	

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
117Z3	A3 B4 C6 G5 I6 I10 K7 L4 L6 L10 M4 M10 N2 N6	Reject if below 4.
117Z6GT	A2 B7 C4 C8 F3 G5 I6 I10 K6 L4 L6 L10 M4 M10 N2 N6	Test P1 and P2. Reject if below 4.
272A	A1 B5 C4 D3 G2 J9 K7 K10 L1 M5 M10 N5 N9	Use WG-337A-5 Adapter.
274A	A1 B4 F3 G2 K5 L5 L6 L10 M4 M10 N1 N9	Use WG-337A-4 Adapter. Test P1 and P2. Reject if below 3.
300B	A1 B4 D3 G2 J10 K6 L1 L6 L8 M4 M10 N1 N9	Use WG-337A-4 Adapter.
310A	A1 B6 C4 C5 D10 E3 G2 I6 I10 J5 K6 L1 M5 M10 N5 N9	Use WG-337A-6 Adapter.
328A	A1 B6 C4 C5 D10 E3 G2 I6 I10 J5 K5 K6 L1 M3 M10 N2 N9	Use WG-337A-6 Adapter.
329A	A1 B5 C4 D10 E3 G2 I6 I10 J10 K1 L1 M3 M10 N2 N9	Use WG-337A-5 Adapter.
352A Triode Unit	A1 B6 C5 D10 G2 I6 I10 J6 K9 L1 M5 M10 N5 N9	Use WG-337A-6 Adapter.
352A Diode Unit	A1 B6 C5 F4 G3 I6 I10 K10 L3 M5 M10 N5 N9	Test P1 and P2. Reject if below 3. Use WG-337A-6 Adapter.
404A	See 5847 Card.	
417A	See 5842 Card.	
418A	A1 B6 C4 D8 E5 G2 I6 I10 J3 K6 L1 L6 L9 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
807	A1 B5 C4 D3 E2 G10 I6 I10 J9 K6 L1 L6 L7 M3 M10 N1 N9	
837	A1 B2 B5 B7 C6 D4 E3 G10 I6 I10 J8 K7 L1 L6 L7 M2 M10 N3 N9	
1203A	Same as 7C4.	
1612	Use 6L7 Card.	
1614	Use 6L6G Card.	
1620	Use 6J7 Card.	
1621	Use 6F6 Card.	
1622	Use 6L6 Card.	
1634	Use 12SC7 Card.	
1635	A2 B7 C8 D4 D5 F3 G6 I6 I10 J1 K8 K9 L1 M5 M10 N2 N9	Test P1 and P2.
1644	Use 12L8 Card.	
1853	See 6AB7/1853.	
5591	Use 6AK5 Card.	
5608A	A1 B7 C4 D3 D5 F2 G6 J1 K4 L1 M4 N6 N2 N6	Test P1 and P2.
***5618**	A7 B1 C4 D6 E3 G2 I6 I10 J9 K6 L1 L6 L8 M4 M10 N2 N9	
5639	A3 B6 C2 D1 E7 G5 I7 I9 J1 K7 L1 L6 L8 M5 M10 N2 N9	
5642	A1 B2 G10 K8 K9 L4 M2 M6 N1 N6	Reject if below 3.
5651	A8 G1 K1 L1 M5 M10 N5 N9	Use WG-324A Adapter.
5654	Use 6AK5 Card.	
5670	A1 B5 B9 C2 C8 D3 D7 F4 G6 J1 K5 K6 L1 L6 L7 M5 M10 N2 N9	Test P1 and P2.
5672	A3 B5 D4 E2 G1 J10 K9 K10 L5 M2 N6 N1 N6	
5676	A2 B4 D3 G1 J7 K3 L1 M2 M6 N1 N6	
5678	A5 B3 D4 E2 G1 J6 K9 L5 M2 M6 N1 N6	Reject if below 3.
5679	Use 7A6 Card.	
5686	A4 B5 C1 C3 D2 E6 G7 I6 I10 J8 K3 K4 L1 M5 M10 N2 N9	
5687	A4 A5 B8 C3 C6 D2 D7 F1 G9 I6 I10 J4 K6 L1 L6 L8 M3 M10 N1 N9	Test P1 and P2.
5691	Use 6SL7 Card.	
5692	Use 6SN7 Card.	
5693	Use 6SJ7 Card.	
5702	A3 B4 C5 C6 D7 E2 G1 I7 I8 J1 K5 K6 L1 L6 L7 M5 M10 N2 N9	
5703	A3 B4 C6 D5 G1 I9 I10 J1 K5 K6 L1 L6 L7 M5 M10 N2 N9	
5718	A3 B6 C2 C4 C5 C7 D1 G8 I6 I7 J1 K4 L1 L6 L7 M5 M10 N2 N9	
5725	Use 6AS6 Card.	
5726	Use 6AL5 Card.	
5732	Use 6K7 Card.	
5749	Use 6BA6 Card.	
5750	Use 6BE6 Card.	
5751	Use 12AX7 Card.	
5763	A4 B5 C3 C7 D8 E6 G1 I6 I10 J6 K4 L1 L6 L7 M5 M10 N2 N9	
5814A	Use 12AU7 Card.	
5824	Use 25B6 Card.	
5829	A3 B4 B5 C2 C7 F1 G6 I6 I10 K8 L3 L6 L8 M5 M10 N2 N9	Test P1 and P2. Reject if below 3.
5842/417A	A3 B9 C6 D4 G1 I7 I9 J1 K4 L1 L6 L8 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
5844	A3 B4 C7 D5 D6 F2 G1 J2 K10 L1 L6 L8 M5 M10 N2 N9	Test P1 and P2.
5847/E182F/404A	A9 B3 C4 D1 E8 G6 I8 I10 J1 K7 L1 L6 L8 M5 M10 N2 N9	
5871	Use 6V6 Card.	
5879	A4 B5 C3 C9 D1 E7 G8 I6 I10 J6 K8 L1 M5 M10 N2 N9	
5881	Use 6L6 Card.	
5886	A3 B4 D6 E2 G1 J6 K10 L2 M5 M6 N1 N6	Use Adapter WG-338A. Start Red Dot end at P1. Normal Gm = 1.4.
5896	A3 B4 B6 C2 C7 F1 G5 I6 I10 K7 K8 L2 L6 L8 M5 M10 N2 N9	Test P1 and P2. Reject if below 4.
5897	Use 5718 Card.	
5899	A3 B6 C2 D1 E7 G5 I9 I10 J1 K7 K8 L1 L6 L7 M5 M10 N2 N9	
5902	A3 B6 C2 D1 E7 G5 J1 K6 L1 L6 L7 M5 M10 N2 N9	
5910	Use 1U4 Card.	
5915	A3 B4 C2 C7 D1 E6 G5 I6 I10 J6 K5 K6 L1 M5 M10 N2 N9	
5930	Use 2A3 Card.	
5931	Use 5U4G Card.	
5932	Use 6L6G Card.	
5961	Use 6SA7 Card.	
5963	A4 B5 C3 C8 D2 D7 F1 G6 I6 I10 J1 K6 K7 L1 L6 L7 M2 M10 N3 N9	Test P1 and P2.

** Indicates corrected punch data. Discard any punch information published previously on this tube-type.*

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
5964	A3 B4 C7 D5 D6 F1 G2 I7 I9 J1 K4 L1 L6 L7 M5 M10 N2 N9	Test P1 and P2.
5965	A4 B5 C3 C8 D2 D7 F6 G1 I6 I10 I4 K5 L1 L6 L7 M2 M10 N4 N9	Depress Special Leakage/Gas Button in gas test.
5971	A3 B5 D2 D4 G1 J4 K6 K7 L1 L6 L7 M2 M6 N1 N6	Use WG-338A Adapter.
5992	Use 6V6 Card.	
5998	A7 B8 C3 C6 D1 D4 F2 G5 I6 I7 J1 K8 L1 L6 L8 M4 M10 N2 N9	Test P1 and P2.
6005	Use 6AQ5 Card.	
6006	Use 6SG7 Card.	
6021	A3 B6 C4 C5 D2 D7 F1 G8 I6 I8 J1 K4 L1 L6 L7 M5 M10 N2 N9	Test P1 and P2.
6028	Use 6AK5 Card.	
6046	Use 25L6 Card.	
6057	Use 12AX7 Card.	
6058	Use 6AL5 Card.	
6060	Use 12AT7 Card.	
6063	Use 6X4 Card.	
6066	Use 6AT6 Card.	
6067	Use 12AU7 Card.	
6072	Use 12AY7 Card.	
6074	Use 0B2 Card.	
6080	Use 6AS7G Card.	
6087	Use 5Y3-GT Card.	
6088/12679/12680	A5 B3 D4 E2 G1 J7 K10 L5 M2 M6 N1 N6	
6095	Use 6AQ5 Card.	
6096	Use 6AK5 Card.	
6097	Use 6AL5 Card.	
6098	Use 6AR6 Card.	
6099	Use 6J6 Card.	
6100	Use 6C4 Card.	
6101	Use 6J6 Card.	
6106	Use 5Y3 Card.	
6113	Use 6SL7 Card.	
6118	Use 6Q7 Card.	
6132	Use 6CH6 Card.	
6134	Use 6AC7 Card.	
6135	Use 6C4 Card.	
6136	Use 6AU6 Card.	
6146	A2 B7 C1 D5 E3 G10 I9 I10 J1 K3 K4 L1 L6 L7 M3 M10 N1 N9	
6159	A2 B7 C1 D5 E3 G10 I9 I10 J1 K3 K4 L1 L6 L7 M3 M10 N1 N8	
6180	Use 6SN7 Card.	
6186	Use 6AG5 Card.	
6187	Use 6AS6 Data.	
6188	Use 6SU7 Card.	
6189	Use 12AU7 Card.	
6197	A4 B5 C1 C7 D2 E3 G6 I6 I10 J5 K6 L1 L6 L8 M3 M10 N1 N9	
6201	Use 12AT7 Card.	
6202	Use 6X4 Card.	
6211	A4 B5 C3 C8 D2 D7 F6 G1 I6 I9 J2 K3 L1 L6 L7 M2 M10 N4 N9	Test P1 and P2.
6227	A4 B5 C3 C9 D2 E8 G7 I7 I10 J1 K7 L1 L6 L8 M3 M10 N1 N9	
6265	Use 6BH6 Card.	
6267/EF86	A4 B2 B5 B7 B8 C3 D9 E1 G6 I6 I9 J3 K5 K6 L1 M5 M10 N2 N9	
6293	A2 B7 C1 D5 E3 G10 I9 I10 J1 K3 K4 L1 L6 L7 M3 M10 N1 N9	
*6336	A7 B8 C3 C6 D1 D4 F2 G5 I9 I10 J1 K6 L1 L6 L7 M3 M10 N2 N9	Test P1 and P2.
6350	A4 A5 B9 C2 C7 D3 D8 F6 G1 I6 I10 J6 K5 K6 L1 L6 L7 M5 M10 N2 N9	Test P1 and P2.
6354	A2 G1 K7 L1 L6 L9 M5 M7 N5 N6	
6360/QQV03-10	A4 B5 C2 D1 D3 E7 F8 G6 I6 I10 J10 K5 L1 M2 M10 N4 N9	Test P1 and P2.
6386	A1 B5 B9 C2 C8 D3 D7 F4 G6 I6 I7 J1 K6 L1 I6 L7 M5 M10 N2 N9	Test P1 and P2.
6397	A1 B7 D8 E6 G3 J9 K5 K6 L1 L6 L7 M3 M6 N2 N6	Use WG-339A Adapter.
6463	A4 B5 C2 C7 D3 D8 F1 G6 J1 K3 L1 L6 L7 M2 M10 N3 N9	Test P1 and P2.
6485	Use 6AH6 Card.	
6550	A2 B7 C1 C8 D5 E4 G3 I6 I10 J9 K8 L1 L6 L8 M4 M10 N2 N9	
6627	Use 0B2 Card.	
6660	Use 6BA6 Card.	
6661	Use 6BH6 Card.	
6662	Use 6BJ6 Card.	
6663	Use 6AL5 Card.	
6664	Use 6AB4 Data.	
6669	Use 6AQ5A Card.	
6676	Use 6CB6 Data.	
6677	Use 6CL6 Card.	
6678	Use 6U8A Card.	
6679	Use 12AT7 Card.	
6680	Use 12AU7 Card.	
6681	Use 12AX7 Card.	
6883	A2 B7 C1 D5 E3 G10 I9 I10 J1 K3 K4 L1 L6 L7 M2 M10 N4 N9	
6922	Use 6DJ8 Card.	
6927	Use 6J6 Card.	
6928	Use 6AQ5 Card.	
6939	A4 B5 C2 D1 D3 E7 F8 G6 I7 I10 J1 K7 L1 L6 L8 M2 M10 N4 N9	Test P1 and P2.
6973	A4 B5 C7 D3 E1 G9 I6 I10 J6 K6 L1 L6 L7 M5 M10 N2 N9	
6973	A4 B5 C7 D3 E1 G9 I6 I10 J8 K6 K7 L1 L6 L7 M5 M10 N2 N9	
7025	A4 B5 C3 C8 D2 D7 F1 G6 I6 I10 J2 K8 L1 M2 M10 N3 N9	Test P1 and P2.
7027	A2 B7 C8 D5 E4 G3 I6 I10 J9 K6 L1 L6 L7 M5 M10 N2 N9	
7060 Triode Unit	A4 B5 B9 C3 D2 G1 I8 I10 J1 K5 K6 L1 L6 L7 M1 M10 N3 N9	
7060 Pentode Unit	A4 B5 C9 D8 E7 G6 I7 I10 J1 K2 L1 L6 L7 M1 M10 N3 N9	

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
7189	A4 B5 C3 D2 E9 G7 I6 I10 J5 K6 K7 L1 L6 L8 M3 M10 N1 N9	
7199 Triode Unit	A4 B5 C8 D9 G1 I6 I10 J7 K4 L1 M5 M10 N2 N9	
7199 Pentode Unit	A4 B5 C6 D7 E3 G2 I7 I10 J1 K2 L1 L6 L7 M5 M10 N2 N9	
7308	Use 6DJ8 Data.	
7543	Use 6AU6 Card.	
7543	Use 6AU6 Data.	
7586	A3 B1 B5 C2 D6 G4 J1 K7 K8 L1 L6 L8 M5 M10 N2 N9	Use Nuvistor Adapter WG-340A.
7687	Use 7199 Data.	
7717	Use 6CY5 Card.	
7728	Use 12AT7 Data.	
7729	Use 12AX7 Data.	
7730	Use 12AU7 Data.	
7731	Use 6U8 Data.	
7732	Use 6CE6 Data.	
7733	Use 12BY7 Data.	
7803	Use 6DJ8 Data.	
9001	A3 B4 C7 D1 E6 G5 J6 K7 K8 L1 M5 M10 N2 N9	
9002	A3 B4 C2 D6 G1 I6 I10 J6 K5 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
9003	A3 B4 C2 D1 E6 G5 I6 I10 J6 K5 K6 L1 M5 M10 N2 N9	
12679	See 6088/12679/12680.	
12680	See 6088/12679/12680.	

CARD-PUNCH AND INTERCHANGEABILITY DATA FOR FOREIGN TUBE TYPES

TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
1C1	Use 1R5 Card.	
1C2	Use 1AC6 Card.	
1D13	Use 1A3 Card.	
1F2	Use 1L4 Card.	
1F3	Use 1T4 Card.	
1FD9	Use 1S5 Card.	
1P10	Use 3S4 Card.	
1P11	Use 3V4 Card.	
6D2	Use 6AL5 Card.	
6H8	Use 6B8 Card.	
6M1	Use 6U5 Card.	
6P15	Use 6BQ5 Card.	
7D9	Use 6AM5 Card.	
8D3	Use 6AM6 Card.	
30P4	Use 25E5 Card.	
63ME	Use 6U5 Card.	
85A2	Use OG3 Card.	
108C1	Use OB2 Card.	
150C2	Use OA2 Card.	
150C3	Use OD3 Card.	
B36	Use 12SN7 Card.	
B65	Use 6SN7 Card.	
B152	Use 12AT7 Card.	
B309	Use 12AT7 Card.	
B329	Use 12AU7 Card.	
B339	Use 12AX7 Card.	
BPM04	Use 6AQ5 Card.	
D63	Use 6H6 Card.	
D77	Use 6AL5 Card.	
D152	Use 6AL5 Card.	
DA90	Use 1A3 Card.	
DAC32	Use 1H5 Card.	
DAF91	Use 1S5 Card.	
DAF92	Use 1U5 Card.	
DAF96	Use 1AH5 Card.	
DCC90	Use 3A5 Card.	
DD6	Use 6AL5 Card.	
DDR7	Use 6AM5 Card.	
DF33	Use 1N5 Card.	
DF62	Use 1AD4 Card.	
DF91	Use 1T4 Card.	
DF92	Use 1L4 Card.	
DF96	Use 1AF4 Card.	
DF97	Use 1AN5 Card.	
DF652	Use 1AD4 Card.	
DF904	Use 1U4 Card.	
DH63	Use 6Q7 Card.	
DH77	Use 6AT6 Card.	
DH149	Use 7C6 Card.	
DH719	Use 6T8 Card.	
DK32	Use 1A7 Card.	
DK91	Use 1R5 Card.	
DK92	Use 1AC6 Card.	
DK96	Use 1AB6 Card.	
DL33	Use 3Q5 Card.	
DL35	Use 1C5 Card.	
DL36	Use 1Q5 Card.	
DL91	Use 1S4 Card.	
DL92	Use 3S4 Card.	
DL93	Use 3A4 Card.	
DL94	Use 3V4 Card.	
DL95	Use 3Q4 Card.	
DL96	Use 3C4 Card.	
DL98	Use 3B4 Card.	
DL620	Use 5672 Card.	
DM70	Use 1M3 Card.	

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
DP61	Use 6AK5 Card.	
DY30	Use 1B3 Card.	
DY80	Use 1X2 Card.	
DY87	Use 1S2 Card.	
E88CC	Use 6DJ8 Card.	
E90F	Use 6BH6 Card.	
E95F	Use 6AK5 Card.	
E99F	Use 6BJ6 Card.	
E180F	A4 B5 C1 C3 C8 D2 E9 G7 I7 I10 J1 K6 L1 L6 L8 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
E182F	Use 5847 Card.	
EAA91	Use 6AL5 Card.	
EABC80	Use 6T8 Card.	
EAF42	Use 6CT7 Card.	
EB34	Use 6H6 Card.	
EB91	Use 6AL5 Card.	
EBC33 Triode Unit	A2 B7 C1 C8 D10 G3 J4 K6 L1 M5 M10 N2 N9	
EBC33 Diode Unit	A2 B7 C1 C8 F5 G4 K6 L3 M5 M10 N2 N9	Test P1 and P2. Reject if below 4.
EBC41	Use 6CV7 Card.	
EBC80	Use 6BD7 Card.	
EBC90	Use 6AT6 Card.	
EBC91	Use 6AV6 Card.	
EBF32	Use 6B8 Card.	
EBF80	Use 6N8 Card.	
EBF83	Use 6DR8 Card.	
EBF89	Use 6DC8 Card.	
EC70	Use 6K4 Card.	
EC80	Use 6Q4 Card.	
EC81	Use 6R4 Card.	
EC84	Use 6AJ4 Card.	
EC90	Use 6C4 Card.	
EC91	Use 6AQ4 Card.	
EC92	Use 6AB4 Card.	
EC93	Use 6BS4 Card.	
EC94	Use 6AF4 Card.	
EC95	Use 6ER5 Card.	
ECC32	Use 6SN7 Card.	
ECC33	A7 B8 C3 C6 D1 D4 F2 G5 J2 K2 L1 M5 M10 N2 N9	Test P1 and P2.
ECC35	A7 B8 C3 C6 D1 D4 F2 G5 J3 K8 L1 M5 M10 N2 N9	Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
ECC81	Use 12AT7 Card.	
ECC82	Use 12AU7 Card.	
ECC83	Use 12AX7 Card.	
ECC84	Use 6CW7 Card.	
ECC85	Use 6AQ8 Card.	
ECC86	Use 6GM8 Card.	
ECC88	Use 6DJ8 Card.	
ECC91	Use 6J6 Card.	
ECC189	Use 6ES8 Card.	
ECF82	Use 6U8 Card.	
ECH42	Use 7J7 Card.	
ECH80	Use 6AN7 Card.	

TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
ECH81	Use 6AJ8 Card.	
ECH83	Use 6DS8 Card.	
ECL80	Use 6AB8 Card.	
ECL82	Use 6BM8 Card.	
EF22	Use 7G7 Card.	
EF40	A1 B8 C4 C7 D5 E6 G2 J4 K7 K8 L1 M5 M10 N2 N9	Use Special Socket Adapter.
EF80	Use 6BX6 Card.	
EF81	Use 6BH5 Card.	
EF85	Use 6BY7 Card.	
EF86	Use 6CF8 Card.	
EF89	Use 6DA6 Card.	
EF91	Use 6AM6 Card.	
EF92	Use 6CQ6 Card.	
EF93	Use 6BA6 Card.	
EF94	Use 6AU6 Card.	
EF95	Use 6AK5 Card.	
EF96	Use 6AG5 Card.	
EF98	Use 6ET6 Card.	
EF804	A4 B1 B2 B5 C3 D9 E8 G7 I6 I10 J3 K4 K5 L1 M5 M10 N2 N9	
EH90	Use 6CS6 Card.	
EK90	Use 6BE6 Card.	
EL22	Use 7B5 Card.	
EL33	Use 6AG6 Card.	
EL34	Use 6CA7 Card.	
EL35	Use 6L6 Card.	
EL36	Use 6CM5 Card.	
EL37	A2 B7 C8 D5 E4 G3 I8 I10 J1 K2 L1 L6 L7 M5 M10 N2 N9	
EL38	A2 B7 C8 D5 E4 G10 I8 I10 J1 K7 L1 L6 L8 M5 M10 N2 N9	
EL41	Use 6CK5 Card.	
EL80	Use 6M5 Card.	
EL81	Use 6CJ6 Card.	
EL83	Use 6CK6 Card.	
EL84	Use 6BQ5 Card.	
EL85	Use 6BN5 Card.	
EL86	Use 6CW5 Card.	
EL90	Use 6AQ5 Card.	
EL91	Use 6AM5 Card.	
EL95	Use 6DL5 Card.	
EL821	Use 6CH6 Card.	
EM34	Use 6CD7 Card.	
EM35	Use 6U5 Card.	
EM80	Use 6BR5 Card.	
EM81	Use 6DA5 Card.	
EQ80	Use 6BE7 Card.	
EY51	Use 6X2 Card.	
EY80	Use 6U3 Card.	
EY81	Use 6R3 Card.	
EY86	Use 6S2 Card.	
EZ35	Use 6X5 Card.	
EZ40	Use 6BT4 Card.	
EZ80	Use 6V4 Card.	
EZ81	Use 6CA4 Card.	

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
EZ90	Use 6X4 Card.	
FW4/800	A3 B4 F2 G1 K2 L5 L6 L10 M5 M6 N1 N6	Test P1 and P2. Reject if below 4. Use Special Socket Adapter.
GZ30	Use 5Z4 Card.	
GZ31	Use 5U4 Card.	
GZ32	Use 5V4 Card.	
GZ34	Use 5AR4 Card.	
H63	Use 6F5 Card.	
HBC90	Use 12AT6 Card.	
HBC91	Use 12AV6 Card.	
HD30	Use 3B4 Card.	
HF93	Use 12BA6 Card.	
HF94	Use 12AU6 Card.	
HK90	Use 12BE6 Card.	
HL90	Use 19AQ5 Card.	
HL92	Use 50C5 Card.	
HM04	Use 6BE6 Card.	
HY90	Use 35W4 Card.	
KT32	Use 25L6 Card.	
KT61	Use 6AG6 Card.	
KT63	Use 6F6 Card.	
KT66	A2 B1 B7 C8 D5 E4 G3 I6 I10 J9 K6 L1 L6 L7 M4 M10 N2 N9	
KT88	A2 B7 C8 D5 E4 G3 I6 I10 J4 K6 L1 L6 L8 M4 M10 N2 N9	
KTW63	Use 6K7 Card.	
KTZ63	Use 6J7 Card.	
L63	Use 6J5 Card.	
L77	Use 6C4 Card.	
M8080	Use 6C4 Card.	
M8081	Use 6J6 Card.	
M8100	Use 6AK5 Card.	
M8136	Use 12AU7 Card.	
M8212	Use 6AL5 Card.	
M8232	Use 6J4 Card.	
M8245	Use 6AQ5 Card.	
N17	Use 3S4 Card.	
N18	Use 3Q4 Card.	
N19	Use 3V4 Card.	
N77	Use 6AM5 Card.	
N78	Use 6BJ5 Card.	
N147	Use 6AG6 Card.	
N727	Use 6AQ5 Card.	
PABC80	Use 9AK8 Card.	
PCC84	Use 7AN7 Card.	
PCC85	Use 9AQ8 Card.	
PCC88	Use 7DJ8 Card.	
PCF80	Use 9A8 Card.	
PCF82	Use 9U8 Card.	
PCL82	Use 16A8 Card.	
PCL84	Use 15DQ8 Card.	
PL36	Use 25E5 Card.	
PL81	Use 21A6 Card.	
PL82	Use 16A5 Card.	
PL83	Use 15A6 Card.	
PY80	Use 19X3 Card.	
PY81	Use 17Z3 Card.	
PY82	Use 19Y3 Card.	
QQV02-6	Use 6939 Card.	
QQV03-10	Use 6360 Card.	
QV03-12	Use 5763 Card.	
QV05-25	Use 807 Card.	
QV06-20	Use 6146 Card.	
U50	Use 5Y3 Card.	
U52	Use 5U4 Card.	
UAF42	Use 12S7 Card.	
UB91	Use 12AL5 Card.	
UBC41	Use 14L7 Card.	
UBF80	Use 17C8 Card.	
UCH42	Use 14K7 Card.	
UCH81	Use 19AJ8 Card.	
UCL82	Use 50BM8 Card.	
UL41	Use 45A5 Card.	
UL84	Use 45B5 Card.	
UF41	Use 12AC5 Card.	
UF89	Use 12DA6 Card.	
UQ80	Use 12BE7 Card.	
UY41	Use 31A3 Card.	
UY85	Use 38A3 Card.	
W17	Use 1T4 Card.	
X18	Use 1AC6 Card.	
X79	Use 6AE8 Card.	
X727	Use 6BE6 Card.	
XC95	Use 2ER5 Card.	
XCC189	Use 4ES8 Card.	
XL84	Use 8BQ5 Card.	
XXD	Use 7AF7 Card.	
Y61	Use 6U5 Card.	
Y63	Use 6U5 Card.	
Z14	Use 1N5 Card.	
Z63	Use 6J7 Card.	
Z719	Use 6BX6 Card.	
ZD17	Use 1S5 Card.	

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WG-324A Gas Tube Adapter	$2.95*
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APRIL 1962 PRICE 50 CENTS

SUPPLEMENT TO

CARD PUNCH DATA BOOKLET

for the

RCA WT-110A
AUTOMATIC ELECTRONIC TUBE TESTER

This card punch data is provided as an addition to the Card Punch Data Booklet 1CE-234, dated January, 1961, which is available through RCA Electronic Instrument Distributors. This supplement replaces Supplement 1 (August, 1961), and contains the latest punching information available as of the date of publication.

CORRECTED PUNCHING DATA

In some copies of the Card Punch Data Booklet, the punching data for the following tube-types is in error. The data in the Booklet should be corrected to agree with the punching information shown below.

TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
3BZ6	A3 B4 B7 C2 D1 E6 G5 I7 I10 J1 K3 K4 L1 L6 L7 M2 M6 N4 N6	
4BZ6	A3 B4 C2 C7 D1 E6 G5 17 110 J1 K5 K6 L1 L6 L7 M1 M6 N4 N6	
6AK8 Triode Unit	A4 B5 C7 D8 G9 J2 K7 K8 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6AK8 Diode Unit 1	A4 B5 C3 C7 G6 I6 I10 K8 L3 M5 M10 N2 N9	Test P1 only. Reject if below 1.
6AK8 Diode Unit 2	A4 B5 C3 C7 F2 H1 I6 I10 K7 L3 L6 L8 M5 M10 N2 N9	Test P2 and P3 only. Reject if below 3.
6AU7	A4 B5 C3 C8 D2 D7 F1 G6 I6 I10 J5 K4 L1 M5 M10 N2 N9	Test P1 and P2.
6BZ6	A3 B4 B7 C2 D1 E6 G5 I7 I10 J1 K3 K4 L1 L6 L7 M5 M10 N2 N9	
6ET6	Correct F6 to read E6	
7AU7	A4 B5 C3 C8 D2 D7 F1 G6 I6 I10 J5 K4 L1 M4 M10 N2 N9	Test P1 and P2.
12AE6A Triode Unit	A3 B4 C2 D1 G7 I6 I10 J1 K6 K8 L2 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test. For 12AE6 without suffix "A", reject if below 3.5.
12AU7	A4 B5 C3 C8 D2 D7 F1 G6 I6 I10 J5 K4 L1 M2 M10 N3 N9	Test P1 and P2.
12FX8	Correct Heptode Data—Change B4 to read B5	
21A6	Change 21A8/PL81 data to read 21A6/PL81. Remove 21A8/PL81 heading	
35EH5	A3 B4 C1 D2 E6 G7 I7 I10 J1 K6 L1 L6 L8 M1 M10 N5 N8	
6354	A2 G1 K7 L1 L6 L9 M5 M7 N5 N6	

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NEW PUNCHING INFORMATION

TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
1A4	A1 B4 D10 E3 G2 J7 K3 L1 M3 M6 N2 N6	Use WG-337A-4 Adaptor.
1AU3	A7 B2 G10 K10 L5 M1 M6 N2 N6	Reject if below 3.
1B4	A1 B4 D10 E3 G2 J10 K9 L1 M3 M6 N2 N6	Use WG-337A-4 Adaptor.
1B5/25S Triode Unit	A1 B6 D5 G2 J6 K8 L1 M3 M6 N2 N6	Use WG-337A-6 Adaptor.
1B5/25S Diode Unit	A1 B6 F3 G4 K3 L4 M3 M6 N2 N6	Use WG-337A-6 Adaptor. Test P1 and P2. Reject if below 3.
1H4G	A2 B7 D5 G3 J8 K3 K4 L1 M3 M6 N2 N6	
1K6 Tetrode Unit	A1 B6 D10 E5 G2 J7 K6 K8 L1 M3 M6 N2 N6	Use WG-337A-6 Adaptor.
1K6 Diode Unit	A1 B6 F3 G4 K9 L3 M3 M6 N2 N6	Use WG-337A-6 Adaptor. Test P1and P2. Reject if below 1.
1LF3	Use 1LE3 Data.	
2CW4	A3 B1 B5 C2 D6 G4 I6 I8 J1 K1 K2 L1 L6 L7 M3 M6 N2 N6	Use Nuvistor Adaptor WG-340A.
2FQ5	A3 B4 B6 C1 C7 D2 G5 I6 I10 J3 K7 L1 L6 L8 M3 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
2FS5	A3 B4 C2 C7 D1 E6 G5 I6 I10 J1 K1 L1 L6 L7 M3 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
2GK5	A3 B4 B6 C1 C7 D2 G5 I6 I10 J2 K5 K6 L1 L6 L8 M3 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
3AW3	Use 3A3 Data	
3BX6	A4 B5 C1 C3 C6 C9 D2 E8 G7 I6 I10 J2 K2 L1 L6 L7 M3 M6 N1 N6	Depress Special Leakage/Gas Button in gas test.
3FQ5	A3 B4 B6 C1 C7 D2 G5 I6 I10 J3 K7 L1 L6 L8 M4 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
3FS5	A3 B4 C2 C7 D1 E6 G5 I6 I10 J1 K1 L1 L6 L7 M4 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
3GK5	A3 B4 B6 C1 C7 D2 G5 I6 I10 J2 K5 K6 L1 L6 L8 M4 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
3GS8	A4 B5 C1 C6 C9 D7 E2 F3 G8 I6 I10 J1 K7 L1 M4 M6 N2 N6	Test P1 and P2. Reject if below 3.
3HS8	A4 B5 B6 B9 C1 D7 E2 F3 G8 I6 I10 J2 K8 K9 L1 M4 M6 N2 N2	Test P1 and P2. Reject if below 3.
4AV6 Diode Unit	A3 B4 C2 F5 G6 I6 I10 K7 L4 L6 L7 M4 M6 N1 N6	Test P1 and P2. Reject if below 4.
4AV6 Triode Unit	A3 B4 C2 D1 G7 I6 I10 J2 K8 L1 M4 M6 N1 N6	Depress Special Leakage/Gas Button in gas test.
4CM4	A4 B5 C3 C7 D2 D6 D8 G1 G9 I6 I10 J2 K1 L1 L6 L7 M5 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
4CK5	A3 B4 B6 C1 C7 D2 G5 I6 I10 J2 K5 K6 L1 L6 L8 M4 M6 N1 N6	Depress Special Leakage/Gas Button in gas test.
4GS8	A4 B5 C1 C6 C9 D7 E2 F3 G8 I6 I10 J1 K7 L1 M4 M6 N1 N6	Test P1 and P2. Reject if below 3.
4HS8	A4 B5 B6 B9 C1 D7 E2 F3 G8 I6 I10 J2 K8 K9 L1 M4 M6 N1 N6	Test P1 and P2. Reject if below 3.
5EW6	A3 B4 B7 C2 D1 E6 G5 I7 I9 J1 K7 L1 L6 L8 M4 M10 N1 N9	Depress Special Leakage/Gas Button in gas test.
5GX6 Grid 1 Test	A3 B4 B7 C2 D1 E6 G5 J1 K6 L1 M5 M6 N1 N6	
5GX6 Grid 3 Test	A3 B1 B4 C2 D7 E6 G5 J1 K10 L1 M5 M6 N1 N6	Reject if below 3.
6AE8 Triode Unit	A4 B1 B2 B5 B6 C3 D7 G8 I6 I10 J5 K6 K7 L1 M5 M10 N2 N9	
6AE8 Hexode Unit	A4 B5 B7 C3 D2 E1 G6 I6 I10 J5 K7 L1 M5 M10 N2 N9	
6AL3	A4 B5 C10 G3 G8 G9 K2 K3 L4 L6 L9 M3 M10 N1 N9	Reject if below 4.
6AR7 Pentode Unit	A1 B8 C7 D10 E4 G3 I6 I10 J6 K4 K5 L1 M5 M10 N2 N9	
6AR7 Diode Unit	A1 B8 C7 F5 G6 K6 K7 L4 L6 L7 M5 M10 N2 N9	Test P1 and P2. Reject if below 3.
6AU7	A4 B5 C3 C8 D2 D7 F1 G6 I6 I10 J5 K9 L1 L6 L7 M5 M10 N2 N9	Test P1 and P2.
6AX7	A4 B5 C3 C8 D2 D7 F1 G6 I6 I10 J2 K8 L1 M5 M10 N2 N9	Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
6BD7/EBC 81 Triode Unit	A4 B5 C3 D2 G1 I6 I10 J2 K6 K7 L1 M5 M10 N2 N9	Depress Special Leakage/Gac Button in gas test.
6BD7/EBC 81 Diode Unit	A4 B5 C3 F8 G6 K3 L4 M5 M10 N2 N9	Test P1 and P2. Reject if below 3.
6BJ5	A3 B4 C2 D1 E7 G5 I6 I10 J3 K3 L1 L6 L7 M3 M10 N1 N9	
6BK6	Use 6AV6 Data.	
6BV7 Pentode Unit	A4 B5 C9 D8 E3 G2 I6 I10 J5 K2 L1 L6 L8 M5 M10 N2 N9	
6BV7 Diode Unit	A4 B5 C7 F1 G6 K4 K5 L3 M5 M10 N2 N9	Test P1 and P2. Reject if below 2.
6BX8	A4 B5 B9 C3 C8 D2 D7 F1 G6 I6 I10 J4 K2 L1 L6 L7 M5 M10 N2 N9	Test P1 and P2. Use Special Leakage Test.
6CM4	A4 B5 C3 C7 D2 D6 D8 G1 G9 I6 I10 J2 K1 L1 L6 L7 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6CR4	A7 B8 C1 D1 D3 D4 D6 D9 G5 I6 I10 J2 K5 L1 L6 L8 M5 M10 N2 N9	
6CS5	Use 6HD5 Data.	
6DM4	A7 B8 C3 G5 I6 I10 K6 L4 L6 L10 M4 M10 N2 N9	Reject if below 4.
6DQ4	Use 6AX4 Data.	
6DR4	A3 B4 C7 D6 G1 G5 I6 I10 J2 K8 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6DS4	A3 B1 B5 C2 D6 G4 I6 I8 J1 K3 K4 L1 L6 L7 M5 M10 N2 N9	Use Nuvistor WG-340A Adaptor.

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
6DX8 Triode Unit	A4 B5 B7 C3 D1 G2 I6 I10 J2 K8 L1 L6 L7 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6DX8 Pentode Unit	A4 B5 C7 D8 E9 G6 I6 I10 J3 K2 L1 L6 L7 M5 M10 N2 N9	
6E7	A1 B7 C4 C6 D10 E3 G2 I6 I10 J6 K10 L1 L6 L7 M5 M10 N2 N9	Use WG-337A-7 Adaptor.
6EC7	A4 B5 C1 C3 C6 C9 D2 E8 G7 I6 I10 J3 K6 L1 L6 L7 M5 M10 N2 N9	
6ES6	A3 B4 C2 C7 D1 G5 G6 I6 I10 J6 K7 K10 L2 M5 M10 N2 N9	
6ET7 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K10 L1 L6 L9 M3 M10 N1 N9	
6ET7 Diode Unit	A4 B5 C1 F2 G3 K3 K4 L4 M3 M10 N1 N9	Test P1 and P2. Reject if below 3.
6EW7 Triode Unit 1	A4 B5 C8 D7 G6 I6 I10 J7 K10 L1 L6 L7 M3 M10 N1 N9	
6EW7 Triode Unit 2	A4 B5 C9 D2 G1 I6 I10 J10 K3 L1 L6 L7 M3 M10 N1 N9	
6FC7	A4 B5 C3 C8 D2 D7 F1 G6 I6 I8 J1 K3 L1 L6 L7 M5 M10 N2 N9	Test P1 and P2. Special Leakage Test.
6FD6	A3 B4 C2 C7 D1 E6 G5 I6 I10 J2 K6 L2 M5 M10 N2 N9	
6F18	Use 6EC7 Data.	
6FQ5	A3 B4 B6 C1 C7 D2 G5 I6 I10 J3 K7 L1 L6 L8 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6FQ7	Use 6CG7 data	
6FR7 Triode Unit 1	A4 B5 C8 D7 G6 I6 I10 J2 K6 K7 L1 M3 M10 N1 N9	Depress Special Leakage/Gas Button in gas test.
6FR7 Triode Unit 2	A4 B5 C9 D2 D3 G1 I6 I10 J10 K4 L1 L6 L7 M3 M10 N1 N9	
6FS5	A3 B4 C2 C7 D1 E6 G5 I6 I10 J1 K1 L1 L6 L7 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6GA8	A4 B5 C3 C8 C9 D2 D7 F1 G6 I6 I10 J7 K2 L1 M5 M10 N2 N9	Test P1 and P2.
6GC5	A4 B5 C7 D3 D6 E1 E8 G9 I6 I7 J1 K8 L1 L6 L8 M3 M10 N1 N9	
6GK5	A3 B4 B6 C1 C7 D2 G5 I6 I10 J2 K5 K6 L1 L6 L8 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6GM5	A4 B5 C7 D6 E1 G9 I6 I10 J5 K2 L1 L6 L7 M3 M10 N1 N9	
6GM8	A4 B5 B9 C3 C8 D2 D7 F1 G6 I7 I10 J1 K8 L2 L6 L7 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test. Test P1 and P2.
6GS8	A4 B5 C1 C6 C9 D7 E2 F3 G8 I6 I10 J1 K7 L1 M5 M10 N2 N9	Test P1 and P2. Reject if below 3.
6GW8 Triode Unit	A4 B5 C2 D1 G9 I6 I10 J2 K9 K10 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6GW8 Pentode Unit	A4 B5 C7 D8 E3 G6 I6 I10 J5 K2 L1 L6 L7 M5 M10 N2 N9	
6GX6 Grid 1 Test	A3 B4 B7 C2 D1 E6 G5 J1 K6 L1 M5 M10 N2 N9	
6GX6 Grid 3 Test	A3 B1 B4 C2 D7 E6 G5 J1 K10 L1 M5 M10 N2 N9	Reject if below 3.
6GY6	Use 6GX6 data	
6GY8	A5 B4 C1 C3 C7 C8 F9 G6 H2 I6 I10 K4 K5 L5 M5 M10 N2 N9	Test P1 - P2 - P3. Reject if below 3. Shows Short on K. Emission Test Only.
6HB6	A4 B3 B5 B9 C1 D2 E8 G7 I6 I9 J1 K3 K4 L1 L6 L8 M3 M10 N1 N9	
6HC8 Pentode Unit	A4 B5 C2 D3 E7 G6 I6 I10 J9 K7 L1 L6 L7 M4 M10 N2 N9	
6HC8 Triode Unit	A4 B2 B5 C8 D1 G9 I6 I10 J3 K5 K6 L1 M4 M10 N2 N9	Reject if below 3. Depress Special Leakage/Gas Button in gas test.
6HF8 Triode Unit	A4 B5 B6 C1 D2 G3 J2 K4 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6HF8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I10 J1 K7 L1 L6 L8 M5 M10 N2 N9	
6HG8 Triode Unit	A4 B5 C3 D6 G7 I6 I10 J6 K5 L1 L6 L7 M5 M10 N2 N9	
6HG8 Pentode Unit	A4 B5 C1 D2 E9 G8 I6 I10 J2 K6 K7 L1 L6 L8 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6HJ8 Pentode Unit	A4 B5 B9 C1 D2 E3 G6 I7 I10 J1 K7 K8 L1 L6 L8 M5 M10 N2 N9	
6HJ8 Diode Unit	A4 B5 B9 C7 G8 I6 I10 K6 K7 L3 L6 L8 M5 M10 N2 N9	Reject if below 3.
6HQ6	A3 B4 B7 C2 D1 E6 G5 I7 I10 J1 K7 L1 L6 L8 M5 M10 N2 N9	
6HS8	A4 B5 B6 B9 C1 D7 E2 F3 G8 I6 I10 J2 K8 K9 L1 M5 M10 N2 N9	Test P1 and P2. Reject if below 3.
6HZ8 Triode Unit	A4 B5 C1 D2 G3 J1 K7 K8 L1 L6 L7 M3 M10 N1 N9	Depress Special Leakage/Gas Button in gas test.
6HZ8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I10 J1 K6 K7 L1 L6 L8 M3 M10 N1 N9	
6JC8 Triode Unit	A4 B5 C1 C7 D8 G9 I6 I10 J2 K4 L1 L6 L7 M5 M10 N2 N9	
6JC8 Pentode Unit	A4 B5 C1 C7 D2 E3 G6 I6 I10 J2 K6 L1 L6 L7 M5 M10 N2 N9	
6JE8 Triode Unit	A4 B5 C1 D2 G3 J1 K7 K8 L1 L6 L7 M3 M10 N1 N9	Depress Special Leakage/Gas Button in gas test.
6JE8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I10 J1 K1 L1 L6 L7 M3 M10 N1 N9	
6JH8	A4 B1 B2 B5 C7 D6 E3 F8 G9 I8 I10 J1 K3 L1 M5 M10 N2 N9	Test P1 and P2.
6JK8 Triode Unit 1	A4 B5 B9 C8 D7 G6 I6 I10 J2 K2 L1 L6 L7 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6JK8 Triode Unit 2	A4 B5 B9 C3 D2 G1 I6 I10 J3 K7 K8 L1 L6 L8 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6SZ7 Triode Unit	A7 B8 C3 C4 C5 D2 G6 I6 I10 J2 K8 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6SZ7 Diode Unit	A7 B8 C3 F4 G5 I6 I10 K7 L4 L6 L7 M5 M10 N2 N9	Test P1 and P2. Reject if below 4.

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
6ZY5	Use 6X5 Data.	
7ED7	A4 B5 C1 C3 C6 C9 D2 E8 G7 I6 I10 J2 K1 K2 L1 L6 L7 M3 M10 N2 N9	
7FC7	A4 B5 C3 C8 D2 D7 F1 G6 I6 I8 J1 K3 L1 L6 L7 M3 M10 N2 N9	Test P1 and P2. Special Leakage Test.
7HG8 Triode Unit	A4 B5 C3 D6 G7 I6 I10 J6 K5 L1 L6 L7 M3 M10 N2 N9	
7HG8 Pentode Unit	A4 B5 C1 D2 E9 G8 I6 I10 J2 K6 K7 L1 L6 L8 M3 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
8A8 Pentode Unit	A4 B1 B5 C7 D2 E3 G6 I6 I10 J3 K5 L1 L6 L7 M5 M10 N3 N9	
8A8 Triode Unit	A4 B5 B7 C8 D9 G1 I6 I10 J4 K5 K6 L1 L6 L7 M5 M10 N3 N9	
8ET7 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K10 L1 L6 L9 M5 M10 N3 N9	
8ET7 Diode Unit	A4 B5 C1 F2 G3 K3 K4 L4 M5 M10 N3 N9	Test P1 and P2. Reject if below 3.
8EV7	A4 B5 C3 C8 D2 D7 F1 G6 I7 I10 J1 K6 K7 L1 L6 L7 M5 M10 N3 N9	Test P1 and P2.
8FQ7	Use 8CG7 data	
8HG8 Triode Unit	A4 B5 C3 D6 G7 I6 I10 J6 K5 L1 L6 L7 M5 M10 N3 N9	
8HG8 Pentode Unit	A4 B5 C1 D2 E9 G8 I6 I10 J2 K6 K7 L1 L6 L8 M5 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
8JE8 Triode Unit	A4 B5 C1 D2 G3 J1 K7 K8 L1 L6 L7 M5 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
8JE8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I10 J1 K1 L1 L6 L7 M5 M10 N3 N9	
8JK8 Triode Unit 1	A4 B5 B9 C8 D7 G6 I6 I110 J2 K2 L1 L6 L7 M5 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
8JK8 Triode Unit 2	A4 B5 B9 C3 D2 G1 I6 I10 J3 K7 K8 L1 L6 L8 M5 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
9A8 Pentode Unit	A4 B1 B5 C7 D2 E3 G6 I6 I10 J3 K5 L1 L6 L7 M4 M10 N3 N9	
9A8 Triode Unit	A4 B5 B7 C8 D9 G1 I6 I10 J4 K5 K6 L1 L6 L7 M4 M10 N3 N9	
9AB4	A4 B2 B3 C7 D6 G1 J1 K6 L1 L6 L7 M5 M10 N4 N9	
10EM7 Triode Unit 1	A7 B8 C6 D4 G5 I6 I10 J2 K6 K7 L1 M5 M10 N5 N9	Depress Special Leakage/Gas Button in gas test.
10EM7 Triode Unit 2	A7 B8 C3 D1 G2 I6 I10 J10 K4 L1 L6 L7 M5 M10 N5 N9	
10EW7 Triode Unit 1	A4 B5 C8 D7 G6 I6 I10 J7 K10 L1 L6 L7 M4 M10 N5 N9	
10EW7 Triode Unit 2	A4 B5 C9 D2 G1 I6 I10 J10 K3 L1 L6 L7 M4 M10 N5 N9	
10FR7 Triode Unit 1	A4 B5 C8 D7 G6 I6 I10 J2 K6 K7 L1 M4 M10 N5 N9	Depress Special Leakage/Gas Button in gas test.
10FR7 Triode Unit 2	A4 B5 C9 D2 D3 G1 I6 I10 J10 K4 L1 L6 L7 M4 M10 N5 N9	
10GN8 Triode Unit	A4 B5 C1 D2 G3 I6 I10 J2 K3 L1 M4 M10 N5 N9	Depress Special Leakage/Gas Button in gas test.
10GN8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K7 L1 L6 L8 M4 M10 N5 N9	
10HF8 Triode Unit	A4 B5 B6 C1 D2 G3 J2 K4 L1 M4 M10 N5 N9	Depress Special Leakage/Gas Button in gas test.
10HF8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I10 J1 K7 L1 L6 L8 M4 M10 N5 N9	
11JE8 Triode Unit	A4 B5 C1 D2 G3 J1 K7 K8 L1 L6 L7 M4 M10 N5 N9	Depress Special Leakage/Gas Button in gas test.
11JE8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I10 J1 K1 L1 L6 L7 M4 M10 N5 N9	
12AU8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K8 L1 L6 L8 M2 M10 N3 N9	
12AU8 Triode Unit	A4 B5 C1 D2 G3 I8 I9 J1 K6 L1 L6 L7 M2 M10 N3 N9	
12BK6	Use 12AV6 Data.	
12BX6	A4 B5 C1 C3 C6 C9 D2 E8 G7 I6 I10 J2 K2 L1 L6 L7 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
12CD7	A2 B7 C8 D4 E5 F6 G3 J3 K10 L1 M2 M10 N4 N9	P1—Gm test—one eye open—one closed. P2—other eye open—second closed. P3—both eyes open. Depress Special Leakage/Gas Button in gas test.
12DF5	A4 B5 C3 C8 F1 G6 I6 I10 K8 L4 L6 L10 M2 M10 N3 N9	Test P1 and P2. Reject if below 2.
12DJ8	A4 B5 B9 C3 C8 D2 D7 F1 G6 I9 I10 J1 K1 L1 L6 L7 M2 M10 N3 N9	Test P1 and P2. Special Leakage Test.
12DM4	A7 B8 C3 G5 I6 I10 K6 L4 L6 L10 M2 M10 N4 N9	Reject if below 4.
12DM5	A3 B4 C1 D2 E6 G7 I6 I10 J9 K2 L1 L6 L7 M2 M10 N3 N9	
12DQ4	Use 12AX4 Data.	
12L8	A6 B7 C2 D1 D3 E5 F4 G8 I6 I10 J6 K3 L1 M2 M10 N3 N9	Test P1 and P2.
13D1	Use 1633 Data.	
13EC7	A4 B5 C1 C3 C6 C9 D2 E8 G7 I6 I10 J3 K6 L1 L6 L7 M2 M10 N4 N9	
13FR7 Triode Unit 1	A4 B5 C8 D7 G6 I6 I10 J2 K6 K7 L1 M1 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
13FR7 Triode Unit 2	A4 B5 C9 D2 D3 G1 I6 I10 J10 K4 L1 L6 L7 M1 M10 N3 N9	
14GT8 Triode Unit	A4 B5 C7 D8 G9 J2 K9 L1 M2 M10 N5 N9	Depress Special Leakage/Gas Button in gas test.
14GT8 Diode Unit	A4 B5 C1 C3 F6 G2 K1 L3 M2 M10 N5 N9	Test P1 and P2. Reject if below 3.
14JG8 Triode Unit	A4 B5 C7 D8 G9 I6 I10 J2 K6 K8 L1 M1 M10 N4 N9	Depress Special Leakage/Gas Button in gas test.
14JG8 Diode Unit	A4 B5 C1 C3 F6 G2 I6 I10 K3 K4 L3 L6 L7 M1 M10 N4 N9	Test P1 and P2. Reject if below 3.
15EA7 Triode Unit 1	A7 B8 C6 D4 G5 J2 K10 L1 L6 L7 M1 M10 N5 N9	Depress Special Leakage/Gas Button in gas test.
15EA7 Triode Unit 2	A7 B8 C3 D1 G2 J8 K6 L1 L6 L7 M1 M10 N5 N9	

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
16AQ3	A4 B5 C10 G3 G8 G9 K2 K3 L4 L6 L9 M4 M9 N2 N8	Reject if below 4.
16GK6	A4 B3 B5 B9 C1 D2 E8 G7 I6 I10 J5 K6 K7 L1 L6 L8 M4 M9 N1 N8	
17DM4	A7 B8 C3 G5 I6 I10 K6 L4 L6 L10 M3 M9 N2 N8	Reject if below 4.
17DQ4	Use 17AX4 Data.	
17HC8 Pentode Unit	A4 B5 C2 D3 E7 G6 I6 I10 J9 K7 L1 L6 L7 M3 M9 N2 N8	
17HC8 Triode Unit	A4 B2 B5 C8 D1 G9 I6 I10 J3 K5 K6 L1 M3 M9 N2 N8	Reject if below 3. Depress Special Leakage/Gas Button in gas test.
17JK8 Triode Unit 1	A4 B5 B9 C8 D7 G6 I6 I10 J2 K2 L1 L6 L7 M M9 N2 N8	Depress Special Leakage/Gas Button in gas test.
17JK8 Triode Unit 2	A4 B5 B9 C3 D2 G1 I6 I10 J3 K7 K8 L1 L6 L8 M4 M9 N2 N8	Depress Special Leakage/Gas Button in gas test.
18HB8 Triode Unit	A4 B5 B8 C2 D1 G3 J1 K6 K8 L1 L6 L7 M5 M9 N3 N8	
18HB8 Pentode Unit	A4 B5 C8 D9 E6 G7 I8 I9 J1 K4 K5 L1 L6 L7 M5 M9 N3 N8	
19BR5	A4 B5 C2 D1 E3 E8 E9 G7 I6 I10 J2 K9 L1 M4 M9 N4 N8	P1—Gm test—shadow minimum. P2 or P3—shadow maximum.
19BX6	A4 B5 C1 C3 C6 C9 D2 E8 G7 I6 I10 J2 K2 L1 L6 L7 M5 M9 N5 N8	Depress Special Leakage/Gas Button in gas test.
19BY7	A4 B5 C1 C3 D2 E8 G7 I6 I7 J1 K6 L1 L6 L7 M4 M9 N3 N8	
19FL8 Pentode Unit	A4 B5 B9 C3 D2 E1 G6 I6 I10 J4 K6 K7 L1 L6 L7 M4 M9 N3 N8	
19FL8 Diode Unit	A4 B5 C3 F7 G8 I6 I10 K2 L4 M4 M9 N3 N8	Test P1 and P2. Reject if below 4.
19JN8 Triode Unit	A4 B5 B8 C3 D1 G2 I6 I10 J2 K2 K3 L1 L6 L7 M2 M9 N1 N8	
19JN8 Pentode Unit	A4 B5 C8 D9 E7 G6 I6 I10 J2 K3 L1 L6 L7 M2 M9 N1 N8	
19HV8 Triode Unit	A4 B5 C3 D1 G2 I6 I10 J2 K8 L1 M2 M9 N1 N8	Depress Special Leakage/Gas Button in gas test.
19HV8 Pentode Unit	A4 B5 C8 D9 E7 G6 I6 I10 J2 K4 L1 L6 L7 M2 M9 N1 N8	
19U5	A1 B6 C5 D3 E4 G2 I6 I10 J3 K10 L1 M4 M9 N3 N8	P1—Gm test—shadow minimum. P2—shadow maximum.
25DK4	A3 B4 C7 G5 I6 I10 K5 L4 L6 L10 M1 M9 N5 N8	Reject if below 4.
26AQ8	A4 B5 C3 C8 D2 D7 F1 G6 I6 I7 J1 K5 L1 L6 L7 M5 M10 N2 N8	Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
26BK6 Diode Unit	A3 B4 C2 F5 G6 I6 I10 K7 L4 L6 L7 M3 M10 N1 N8	Test P1 and P2. Reject if below 4.
26BK6 Triode Unit	A3 B4 C2 D1 G7 I6 I10 J2 K8 L1 M3 M10 N1 N8	Depress Special Leakage/Gas Button in gas test.
28AK8 Triode Unit	A4 B5 C7 D8 G9 J2 K7 K8 L1 M3 M10 N2 N8	Depress Special Leakage/Gas Button in gas test.
28AK8 Diode Unit 1	A4 B5 C3 C7 G6 I6 I10 K8 L3 M3 M10 N2 N8	Test P1 only. Reject if below 1.
28AK8 Diode Unit 2	A4 B5 C3 C7 F2 H1 I6 I10 K7 L3 L6 L8 M3 M10 N2 N8	Test P2 and P3 only. Reject if below 3.
30AE3	A4 B5 C10 G3 G8 G9 K2 K3 L4 L6 L9 M5 M10 N5 N8	Reject if below 4.
30C1	Use 9A8 Data.	
30P5	Use 7ED7 Data.	
35HB8 Triode Unit	A4 B5 B8 C2 D1 G3 J1 K6 K8 L1 L6 L7 M5 M8 N1 N7	
35HB8 Pentode Unit	A4 B5 C8 D9 E6 G7 I8 I9 J1 K4 K5 L1 L6 L7 M5 M8 N1 N7	
36	A1 B5 C4 D10 E3 G2 I6 I10 J6 K8 K9 K10 L1 M5 M10 N2 N9	Use WG-337A-5 Adaptor.
37	A1 B5 C4 D3 G2 J6 I10 J8 K7 K8 L1 M5 M10 N2 N9	Use WG-337A-5 Adaptor.
38	A1 B5 C4 D10 E3 G2 I6 I10 J10 K8 K9 L1 M5 M10 N2 N9	Use WG-337A-5 Adaptor.
40FR5	A3 B4 C1 D2 D5 E6 G7 I6 I10 J9 K8 L1 L6 L8 M5 M8 N5 N7	
50FA5	A3 B4 C1 D2 D5 E6 G7 I6 I10 J9 K4 L1 L6 L7 M5 M7 N5 N6	
50FK5	A3 B4 C1 D2 D5 E6 G7 I7 I10 J1 K6 K7 L1 L6 L8 M5 M7 N5 N6	
50HC6	A3 B4 C1 D2 E5 G7 I7 I10 J1 K6 L1 L6 L8 M5 M7 N5 N6	
50HK6	A3 B4 C1 D2 E5 G7 I6 I10 J9 K1 L1 L6 L7 M5 M7 N5 N6	
55 Triode Unit	A1 B6 C5 D10 G2 I6 I10 J9 K7 K9 L1 M4 M6 N2 N6	Use WG-337A-6 Adaptor.
55 Diode Unit	A1 B6 C5 F3 G4 K1 L4 M4 M6 N2 N6	Use WG-337A-6 Adaptor. Test P1 and P2. Reject if below 3.
57	A1 B6 C4 C5 D10 E3 G2 I6 I10 J6 K8 L1 M4 M6 N2 N6	Use WG-337A-6 Adaptor.
59	A1 B7 C5 C6 D4 E3 G2 I6 I10 J9 K4 L1 M4 M6 N2 N6	Use WG-337A-7 Adaptor.
60FX5	A3 B4 C1 D2 D5 E6 G7 I7 I10 J1 K6 L1 L6 L8 M5 M9 N5 N7	
63T1	Use 6AB8 Data.	
77	A1 B4 B6 C5 D10 E3 G2 I6 I10 J6 K6 K9 L1 M5 M10 N2 N9	Use WG-337A-6 Adaptor.
79	A1 B6 C4 D3 D10 F2 G5 I6 I10 J1 K6 K7 L1 M5 M10 N2 N9	Test P1 and P2. Use WG-337A-6 Adaptor.
81	A1 B4 G2 K2 L5 L6 L9 M3 M10 N2 N9	Use WG-337A-5 Adaptor. Reject if below 3.
89	A1 B6 C4 C5 D10 E3 G2 I6 I10 J8 K4 K5 L1 M5 M10 N2 N9	Use WG-337A-6 Adaptor.
90C1	A8 G1 G5 K5 L1 L6 L8 M5 M10 N5 N8	Use WG-324A Adaptor.
150B2	Use OA2 Data.	
350B	A2 B7 C8 D5 E4 G3 I6 I10 J8 K3 K4 L1 L6 L7 M3 M10 N1 N9	
512AX	A5 B3 D4 G1 G2 J1 K10 L4 M5 M6 N4 N6	Use WG-338A Adaptor. Start red dot end at Pin 1. Calibrate WT-110A to 6. Reject if below 2. Depress Special Leakage/Gas Button in gas test.

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
1626	A2 B7 C8 D5 G3 I6 I10 J9 K5 L1 M2 M10 N3 N9	
5636	A3 B6 C2 C4 C8 D1 E7 G5 I8 I9 J1 K7 K8 L1 L6 L7 M5 M10 N2 N9	Use WG-339A Adaptor.
5755	A4 B5 C2 C7 D3 D6 F1 G8 J1 K9 K10 L1 M2 M10 N3 N9	Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
6029	A2 B4 D3 G1 J7 K6 L1 L6 L7 M2 M6 N1 N6	Use WG-338A Adaptor. Red dot at Pin 1.
6042	Use 1633 Card.	
6073	Use OA2 Card.	
6074	Use OB2 Card.	
6082	A7 B8 C3 C6 D1 D4 F2 G5 J1 K1 L5 L6 L9 M1 M9 N5 N8	Test P1 and P2.
6137	Use 6SK7 Card.	
6354	Use OA2 Card.	
6626	Use OA2 Card.	
6627	Use OB2 Card.	
6688	Use E180F Card.	
6900	Use 5687 Card.	
7036	Use 6BY6 Card.	
7044	A4 B5 C3 C6 D2 D7 F1 G9 I6 I10 J4 K6 K7 L1 L6 L8 M2 M10 N4 N9	Test P1 and P2.
7054	A4 B5 C1 C3 C9 D2 E8 G7 I7 I9 J1 K6 L1 L6 L8 M2 M10 N4 N9	
7055	A3 B4 C1 C5 C6 F2 G7 I6 I10 K7 L3 L6 L8 M1 M10 N3 N9	Test P1 and P2. Reject if below 4.
7056	A3 B4 C2 C7 D1 E6 G5 I6 I7 J1 K9 L1 L6 L8 M1 M10 N3 N9	
7057	A4 B5 B9 C3 C8 D2 D7 F1 G6 I7 I8 J1 K4 L1 L6 L7 M1 M10 N3 N9	Test P1 and P2. Use Special Leakage Test.
7058	A4 B5 C3 C8 D2 D7 F1 G6 I6 I10 J2 K8 L1 M1 M10 N3 N9	Depress Special Leakage/Gas Button in gas test. Test P1 and P2.
7059 Pentode Unit	A4 B5 C7 D2 E3 G6 I7 I10 J1 K6 L1 L6 L7 M1 M10 N3 N9	
7059 Triode Unit	A4 B5 C8 D9 G1 I7 I10 J1 K3 L1 L6 L7 M1 M10 N3 N9	
7061	A4 B5 C7 D3 D6 E1 E8 G9 I6 I10 J7 K6 K8 L1 L6 L7 M2 M10 N4 N9	

TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
7105	A7 B8 C3 C6 D1 D4 F2 G5 J1 K1 L5 L6 L9 M2 M10 N4 N9	Test P1 and P2.
7167	A3 B4 C2 C7 D1 E6 G5 I7 I9 J1 K1 L1 L6 L7 M1 M10 N3 N9	
7247 Triode Unit 1	A4 B5 C8 D7 G6 I6 I10 J2 K8 L1 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
7247 Triode Unit 2	A4 B5 C3 D2 G1 I6 I10 J5 K4 L1 M2 M10 N3 N9	
7355	A2 B7 C5 D6 E8 G3 I6 I10 J8 K3 K4 L1 L6 L7 M3 M10 N1 N9	
7370	A4 A5 B8 C3 C6 D2 D7 F1 G9 I6 I10 J4 K6 L1 L6 L8 M3 M9 N4 N8	Test P1 and P2.
7382	A3 B4 C2 D1 G7 I6 I10 J2 K8 L1 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
7408	Use 6V6 Card.	
7489	Use 12AU7 Card.	
7492	Use 12AT7 Card.	
7494	Use 12AX7 Card.	
7496	Use 6BA6 Card.	
7551	A4 B5 B7 C1 D2 E3 G6 I6 I10 J7 K5 L1 L6 L7 M2 M10 N4 N9	
7558	A4 B5 B7 C1 D2 E3 G6 I6 I10 J7 K5 L1 L6 L7 M3 M10 N1 N9	
7587	A1 A3 B5 C2 D6 E4 G10 I6 I10 J1 K4 K5 L1 L6 L7 M5 M10 N2 N9	Use Nuvistor Adaptor WG-340A.
7591	A2 B7 C5 D6 E4 E8 G3 I6 I10 J5 K2 L1 L6 L7 M3 M10 N1 N9	
7631	Use 6AL5 Card.	
7687	Use 7199 Card.	
7721	A4 B5 B8 C1 C3 D2 E9 G7 I7 I10 J1 K3 L1 L6 L8 M5 M10 N2 N9	
7751	A2 B7 C8 D5 E4 G3 I6 I10 J10 K7 L1 L6 L8 M3 M10 N1 N9	
7861	A1 B5 B9 C2 C8 D3 D7 F4 G6 J1 K5 K6 L1 L6 L7 M2 M10 N3 N9	Test P1 and P2.
8058	A3 B5 C2 C4 C6 D1 G10 I7 I10 J1 K1 L1 L6 L7 M5 M10 N2 N9	Use Nuvistor Adaptor WG-340A.
9006	A3 B4 C2 C7 G1 G5 K7 K8 L3 M5 M10 N2 N9	Reject if below 3.

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CARD-PUNCH AND INTERCHANGEABILITY DATA FOR FOREIGN TUBE TYPES

TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
A2521	Use 6CR4 Card.	
B719	Use 6AQ8 Card.	
D2M9	Use 6AL5 Card.	
D3a	Use 7721 Card.	
DC90	Use 6C4 Card.	
DL193	Use 3V4 Card.	
DY86	Use 1S2 Card.	
E182CC	Use 5687 Card.	
E235L	Use 7751 Card.	
EBF35 Pentode Unit	A1 B8 C2 C5 C6 C7 D10 E4 G3 I6 I10 J4 K5 L1 M5 M10 N2 N9	
EBF35 Diode Unit	A1 B8 C2 C7 F5 G6 K7 K8 L3 M5 M10 N2 N9	Test P1 and P2. Reject if below 3.
EC83	Use 6CM Card.	
ECC230	Use 6AS7 Card.	
ECC40	A1 B8 C4 C7 D3 D6 F2 G5 I6 I10 J4 K2 K3 L1 M5 M10 N2 N9	Test P1 and P2. Use Special Adaptor.
ECF80	Use 6BL8 Card.	
ECF86	Use 6HG8 Cards.	
ECL84	Use 6DX8 Card.	
ECL86	Use 6GW8 Card.	
EF42	A1 B3 B4 B8 C7 D6 E5 G2 J2 K2 K3 L1 M5 M10 N2 N9	Use Special Adaptor. Depress Special Leakage/Gas Button in gas test.
EF37A	A2 B5 B7 C8 D10 E4 G3 I6 I10 J4 K4 K5 L1 M5 M10 N2 N9	
EF97	Use 6ES6 Card.	
EF98	Use 6ET6 Card.	
EF183	Use 6EH7 Card.	
EF184	Use 6EJ7 Card.	
EF861	Use E180F Card.	
EF905	Use 6AK5 Card.	
EH90	Use 6CS6 Card.	
EL41	A1 B8 C3 C7 D6 E5 G2 I6 I10 J5 K1 K4 L1 L6 L7 M5 M10 N2 N9	Use Special Adaptor.
EL83	Use 6CK6 Card.	
EL84	Use 6BQ5 Card.	
EL500	Use 6CB5 Card.	
EL803	Use 6CK6 Card.	
EM80	Use 6BR5 Card.	
EM81	Use 6DA5 Card.	
EQ80	Use 6BE7 Card.	
EY82	A4 B5 C3 G9 K6 K8 L4 L6 L10 M5 M10 N2 N9	Reject if below 3.
EY83	Use 6S2 Card.	
EY87	Use 6S2 Card.	
EY88	Use 6AL3 Card.	
HD51	Use OA2 Card.	
HD52	Use OB2 Card.	
HM34	Use 12CD7 Card.	
LN152	Use 6AB8 Card.	
LM152	Use 6AB8 Card.	
LZ319	Use 9A8 Card.	
N153	Use 15A6 Card.	
N154	Use 16A5 Card.	
N329	Use 16A5 Card.	

TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
N709	Use 6BQ5 Card.	
PC86	Use 4CM4 Card.	
PCC89	Use 7FC7 Card.	
PCF80	Use 9A8 Card.	
PCF86	Use 7HG8 Cards.	
PM04	Use 6BA6 Card.	
PM05	Use 6AK5 Card.	
PY83	Use 17Z3 Card.	
PY86	Use 1S2 Card.	
QS150/40	Use OD3 Card.	
QS1207	Use OA2 Card.	
QS1208	Use OB2 Card.	
QV03-12	Use 5763 Card.	
R12A	Use 6X2 Card.	
SP6	Use 6AM6 Card.	
SU61	Use 6X2 Card.	
T2M05	Use 6J6 Card.	
U43	Use 6X2 Card.	
U78	Use 6X4 Card.	
U152	Use 19X3 Card.	
U153	Use 17Z3 Card.	
U154	Use 19Y3 Card.	
U709	Use 6CA4 Card.	
UAA91	Use 12AL5 Card.	
UABC80	Use 6AK8 Card.	
UB91	Use 12AL5 Card.	
UBC41	Use 14L7 Card.	
UBC81 Triode Unit	A4 B5 C3 D2 G1 I6 I10 J2 K6 K7 L1 M2 M10 N5 N9	Depress Special Leakage/Gas Button for gas test.
UBC81 Diode Unit	A4 B5 C3 F8 G6 K3 L4 M2 M10 N5 N9	Test P1 and P2. Reject if below 3.
UBF89	Use 19FL8 Card.	
UC92	Use 9AB4 Card.	
UCC85	Use 26AQ8 Card.	
UCH81	Use 19AJ8 Card.	
UCL80 Triode Unit	A4 B5 C8 D9 G1 I6 I10 J4 K5 L1 L6 L7 M4 M10 N2 N8	
UCL80 Pentode Unit	A4 B5 C7 D2 E3 G6 I6 I10 J2 K4 L1 L6 L7 M4 M10 N2 N8	
UF40	A1 B8 C4 C7 D5 E6 G2 J4 K7 K8 L1 M2 M10 N4 N9	Use Special Adaptor.
UF80	Use 19BX6 Card.	
UF85	Use 19BY7 Card.	
UM35	Use 19U5 Card.	
UM80	Use 19BR5 Card.	
UU12	Use 6CA4 Card.	
V2M70	Use 6X4 Card.	
V884	Use 6CQ6 Card.	
W77	Use 6CQ6 Card.	
W719	Use 6BY7 Card.	
WD709	Use 6N8 Card.	
X17	Use 1R5 Card.	
X719	Use 6AJ8 Card.	
Z77	Use 6AM6 Card.	
Z152	Use 6BX6 Card.	
ZD152	Use 6N8 Card.	

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Testing Novar (large 9-pin) Tubes, 10-Pin Tubes, and 12-Pin Integral All-Glass Base (Compactron) Tubes with the RCA WT-110A

The WT-110A *Automatic* Electron Tube Tester can be used to test the new Novar, 10-pin, and 12-pin integral-base tube-types. To test these tubes, a special adaptor must be constructed which contains the tube sockets and necessary switching arrangement. This adaptor is connected directly to the WT-110A through the 9-pin socket and top-cap socket of the tester.

If desired, the adaptor can be constructed with only one or two of the three types of tube sockets. Follow the same wiring arrangement shown in the schematic for the connection of the individual sockets to the tester. The switch shown in the schematic is necessary only if the 12-pin integral-bose socket is used.

MATERIAL REQUIRED

Quantity	Description
1	Novar (large 9-pin) socket, Cinch #149-19-10-038 or equivalent.
1	10-pin socket, Sylvania #7460-0035 or equivalent.
1	12-pin socket, Cinch #149-10-30-025 or equivalent.
1	9-pin plug, Vector P9D, or equivalent.
	3" x 4" x 5" metal box, Premier AMC-1005, or equivalent.
	8-pole, 5-position, non-shorting switch, Centralab PA-1027, or equivalent.
31	Ferrite Sleeves, RCA Replacement Parts Stock #209846. (Order from any RCA Electronic Instrument Distributor.)
4	#4-40 x ¼" machine screws.
4	#4-40 nuts.
2	#2-56 x ¼" machine screws.
2	#2-56 nuts.
2 ft.	10-wire conductor cable, #22, solid.
6 ft.	Insulated hookup wire, #22, solid.
1	Rubber insulating grommet, ¼" I.D.
1	Top-cap from discarded vacuum tube.

CONSTRUCTION

Refer to the parts layout shown in the photograph, Figure 1, and the wiring as shown in the schematic diagram, Figure 2.

It is important that the ferrite sleeves be placed over the ends of all wires that connect to the socket pins, as shown in the schematic diagram. Insulation must be removed from the ends of the wires so that the ferrite sleeves can be slipped over the bare wire close to the socket connection.

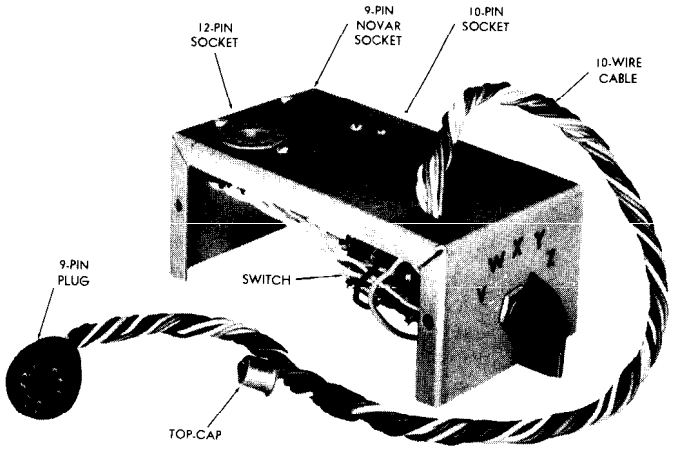

Figure 1

Note: The wires must be positioned so that contact is not made between adjacent sleeves. If these sleeves should touch each other, errors in measurement may occur because of resistance leakage.

Wiring Procedure:

Note: Use only rosin-core solder in the construction of this adaptor.

Connect the wires of the 10-wire cable from the top cap and pins 2 through 8 of the 9-pin plug to the switch lugs as indicated in the schematic, Figure 2. Use hookup wire between these connections and the pins of the 10-pin socket, then to the corresponding pins of the Novar socket. Be sure to install the ferrite sleeves on all connections to the tube sockets.

Connect the wires from pins 1 and 9 of the 9-pin plug to pins 1 and 12 respectively of the 12-pin socket. Connect hookup wire between these two pins and pins 1 and 9 of the Novar and 10-pin sockets as shown in Figure 2. (Use ferrite sleeves on all of these wires.)

Wire the switch ond 12-pin socket as shown in the schematic diagram, again placing a ferrite sleeve on each wire at the connection to the socket.

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Continuity Check:

When the adaptor is completed, the switching circuit can be checked by connecting an ohmmeter between the pins of the 9-pin plug and the pins of the 12-pin socket. The following table shows the 9-pin plug and the 12-pin socket connections which should indicate continuity on each of the five switch positions. Continuity between pins not listed in the table indicates an error in wiring.

9-Pin Plug	Switch Position				
Pin #	V	W	X	Y	Z
1	1	1	1	1	1
2	2	2	2	3	4
3	3	3	3	4	5
4	4	4	4	5	6
5	5	5	5	6	7
6	6	6	8	7	8
7	7	7	9	8	9
8	8	8	10	9	10
9	12	12	12	12	12
Top Cap	11	9	11	10	11

OPERATION

To use the adaptor, insert the 9-pin plug into the 9-pin socket of the WT-110A, and connect the top cap to the top-cap socket of the tester.

Before inserting any tube into the 12-pin socket, the switch on the adaptor must be in the position indicated in the testing data (V, W, X, Y, or Z). Failure to place the switch in the proper position may burn out the tube or damage the tester.

CAUTION: Do not pull the Power Lever of the tester forward to the "Power On" position until the adaptor has been completely connected.

When testing Novar (large 9-pin) tubes or 10-pin tubes, no switching of the adaptor is necessary because the switch does not affect the circuit connected to these tube sockets.

When the adaptor is connected to the WT-110A as described above, the tube to be tested is inserted in the appropriate socket of the adaptor, and the same testing procedure is used as with conventional tube-types.

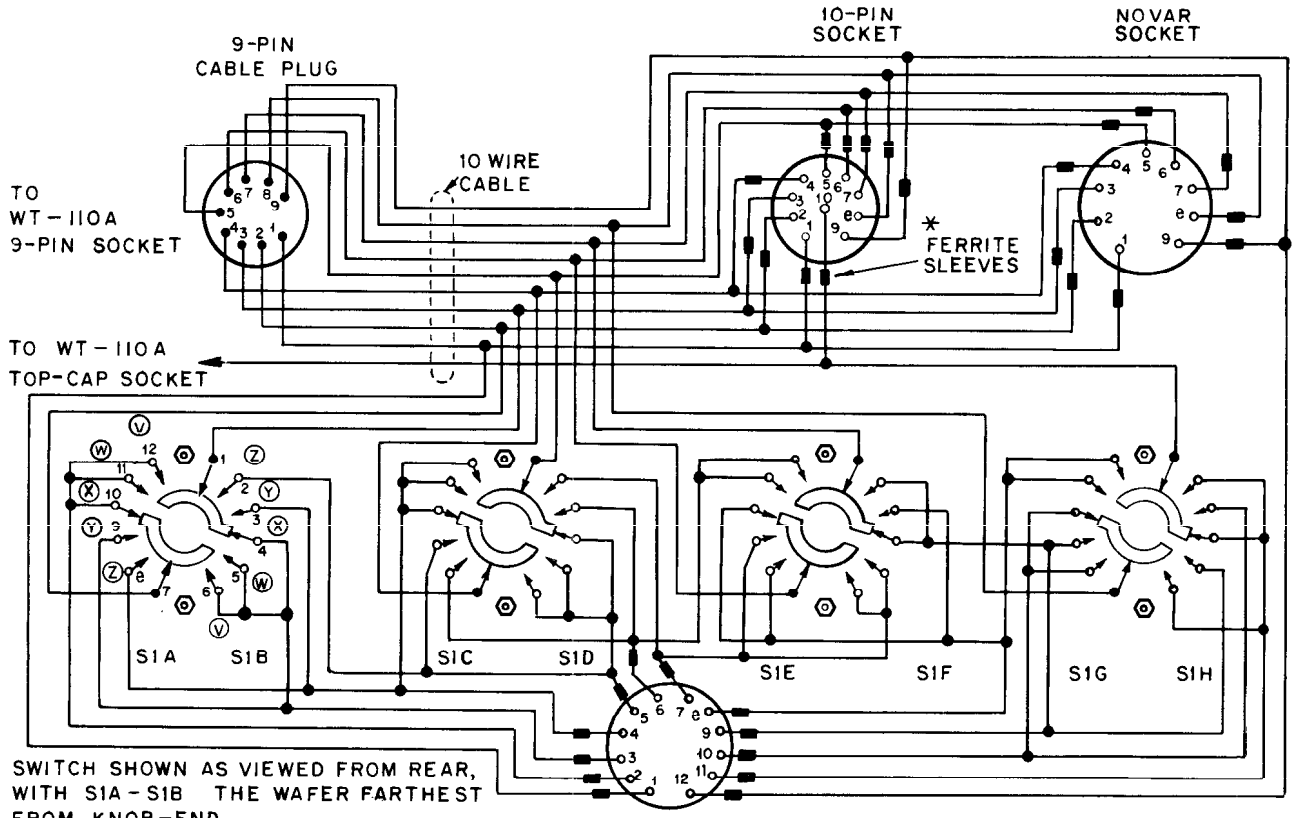

Figure 2

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TESTING INFORMATION FOR
9-PIN NOVAR, 10-PIN, AND 12-PIN TUBE-TYPES
(Using Adaptor Described on Pages 8 and 9)

TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
5AZ3	A1 B9 F3 G7 K1 L5 L6 L10 M5 M10 N2 N9	Test P1 and P2. Reject if below 4. Use Compactron Adaptor on Position V.
5BC3	A1 B3 F5 G9 K1 L5 L6 L10 M4 M10 N2 N9	Use Novar Adaptor. Test P1 and P2.
6AR11 Pentode Unit 1	A1 B5 B9 C10 D8 E7 G6 I7 I10 J1 K3 K4 L1 L6 L7 M5 M10 N2 N9	Use Compactron Adaptor on Position Z. Depress Special Leakage/Gas Button in gas test.
6AR11 Pentode Unit 2	A1 B4 B9 C6 D5 E3 G2 I7 I10 J1 K3 K4 L1 L6 L7 M5 M10 N2 N9	Use Compactron Adaptor on Position V. Depress Special Leakage/Gas Button in gas test.
6AS11 Triode Unit	A1 B2 B9 B10 C5 C7 D3 D6 F4 G8 I7 I9 J1 K5 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position W. Test P1 and P2. Reject if P2 is below 2.
6AS11 Pentode Unit	A1 B9 C7 D10 E4 E8 G2 I7 I10 J1 K2 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position X.
6AV11 Triode Unit 1 and 3	A1 B6 B9 C3 C4 D7 D10 F2 G8 I6 I10 J5 K9 L1 L6 L7 M5 M10 N2 N9	Use Compactron Adaptor on Position X. Test P1 and P2.
6AV11 Triode Unit 2	A1 B9 C6 D7 G5 I6 I10 J5 K9 L1 L6 L7 M5 M10 N2 N9	Use Compactron Adaptor on Position V. Test P1 Only.
6AX3	A1 B9 C6 G3 G10 I6 I10 K1 L4 L6 L9 M4 M10 N2 N9	Use 12-pin integral-base Adaptor on position Y. Reject if below 4.
6AY3	A4 B5 C9 G2 G7 I6 I10 K7 L4 L6 L10 M4 M10 N2 N9	Use Novar Adaptor. Reject if below 4.
6B10 Triode Units	A1 B9 C2 C7 D3 D5 F4 G6 I6 I10 J5 K9 L1 L6 L7 M5 M10 N2 N9	Use 12-pin integral-base Adaptor on position W. Test P1 and P2.
6B10 Diode Units	A1 B9 C7 F6 G8 I6 I10 K4 K5 L3 L6 L7 M5 M10 N2 N9	Use 12-pin integral-base Adaptor on position Z. Test P1 and P2. Reject if below 3.
6BH3	A4 B5 C9 G2 G7 16 I10 K7 L4 L6 L10 M4 M10 N2 N9	Use Novar Adaptor. Reject if below 4.
6C9	A4 B5 C6 C10 D1 D7 E2 E8 F3 G9 I6 I10 J5 K6 L1 L6 L7 M5 M10 N2 N9	Use 10-pin Adaptor. Test P1 and P2.
6C10 Triode Units 1 and 2	A1 B7 B9 C3 C5 D6 D8 F4 G10 I6 I10 J2 K8 L1 M3 M10 N1 N9	Use 12-pin integral-tion Y. Test P1 and base Adaptor on posi-P2. Depress Special Leakage/Gas Button in gas test.
6C10 Triode Unit 3	A1 B6 B9 C3 D10 G2 I6 I10 J2 K8 L1 M3 M10 N1 N9	Use 12-pin integral-base Adaptor on position X. Test P1 only. Depress Special Leakage/Gas Button in gas test.
6D10 Triode Units 1 and 2	A1 B7 B9 C3 C5 D6 D8 F4 G10 I6 I10 J2 K7 L1 L6 L7 M3 M10 N1 N9	Use 12-pin integral-base Adaptor in position Y. Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
6D10 Triode Unit 3	A1 B6 B9 C3 D10 G2 I6 I10 J2 K7 L1 L6 L7 M3 M10 N1 N9	Use 12-pin integral-base Adaptor in position X. Test P1 only. Depress Special Leakage/Gas Button in gas test.
6DW4	A4 B5 C9 G2 G7 I6 I10 K4 L4 L6 L10 M4 M10 N2 N9	Use Novar Adaptor.
6FJ7 Triode Unit 1	A1 B9 C7 D8 G10 I6 I10 J5 K4 K5 L1 M3 M10 N1 N9	Use 12-pin integral-base Adaptor in position Z.
6FJ7 Triode Unit 2	A1 B9 C7 D3 G5 I6 I10 J6 K5 K6 L1 L6 L7 M3 M10 N1 N9	Use 12-pin integral-base Adaptor in position W.
6GB5	A4 B5 C3 C8 D1 D2 E6 E7 G10 I6 I10 J10 K6 K7 L1 L6 L8 M4 M10 N2 N9	Use Novar Adaptor.
6GF5	A1 B9 C4 D3 E2 G7 I6 I10 J10 K3 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position W.
6GJ5	A4 B5 C3 D2 D6 E1 E7 G10 I7 I10 J10 K9 L1 L6 L8 M4 M10 N2 N9	Use Novar Adaptor.
6GT5	A4 B5 C3 D2 D6 E1 E7 G9 I6 I10 J10 K3 L1 L6 L7 M4 M10 N2 N9	Use Novar Adaptor.
6K11 Triode Unit 1	A1 B7 B9 C3 D8 G10 I6 I10 J6 K5 K6 L1 M3 M10 N1 N9	Use 12-pin integral-base Adaptor in position Y.
6K11 Triode Units 2 and 3	A1 B8 B9 C3 C6 D7 D10 F2 G5 I6 I10 J2 K7 K9 L1 M3 M10 N1 N9	Use 12-pin integral-base Adaptor in position V. Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
12AX3	A1 B9 C6 G3 G10 I6 I10 K1 L4 L6 L9 M2 M10 N4 N9	Use Compactron Adaptor on Position Y. Reject if below 4.
12AY3	A4 B5 C9 G2 G7 I6 I10 K7 L4 L6 L10 M2 M10 N4 N9	Use Novar Adaptor. Reject if below 4.
12GJ5	A4 B5 C3 D2 D6 E1 E7 G10 I7 I10 J10 K9 L1 L6 L8 M2 M10 N3 N9	Use Novar Adaptor.
12GT5	A4 B5 C3 D2 D6 E1 E7 G9 I6 I10 J10 K3 L1 L6 L7 M2 M10 N4 N9	Use Novar Adaptor.
17AY3	A4 B5 C9 G2 G7 I6 I10 K7 L4 L6 L10 M4 M9 N2 N8	Use Novar Adaptor. Reject if below 4.

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
17BH3	A4 B5 C9 G2 G7 I6 I10 K7 L4 L6 L10 M3 M9 N2 N8	Use Novar Adaptor. Reject if below 4.
17C9	A4 B5 C6 C10 D1 D7 E2 E8 F3 G9 I6 I10 J5 K6 L1 L6 L7 M4 M9 N2 N8	Use 10-pin Adaptor in any position. Test P1 and P2.
17GJ5	A4 B5 C3 D2 D6 E1 E7 G10 I7 I10 J10 K9 L1 L6 L8 M3 M9 N2 N8	Use Novar Adaptor.
17GT5	A4 B5 C3 D2 D6 E1 E7 G9 I6 I10 J10 K3 L1 L6 L7 M3 M9 N2 N8	Use Novar Adaptor.
22BH3	A4 B5 C9 G2 G7 I6 I10 K7 L4 L6 L10 M2 M9 N3 N8	Use Novar Adaptor. Reject if below 4.
27GB5	A4 B5 C3 C8 D1 D2 E6 E7 G10 I6 I10 J10 K6 K7 L1 L6 L8 M3 M10 N2 N8	Use Novar Adaptor.
28GB5	A4 B5 C3 C8 D1 D2 E6 E7 G10 I6 I10 J10 K6 K7 L1 L6 L8 M4 M10 N3 N8	Use Novar Adaptor.
7868	A4 B5 C3 D2 D6 E1 E7 G9 I6 I10 J5 K1 K2 L1 L6 L7 M4 M10 N2 N9	Use Novar Adaptor. Reject if below 4.

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SUPPLEMENT TO

CARD PUNCH DATA BOOKLET FOR THE RCA WT-110A *AUTOMATIC* ELECTRON TUBE TESTER

INCLUDES SEPARATE LIST OF DATA FOR TESTING THE NOVAR, COMPACTRON, AND 10-PIN TUBE TYPES (SEE PAGE 12).

This card punch data is provided as an addition to the Card Punch Data Booklet 1CE-234, dated January, 1961, which is available through RCA Electronic Instrument Distributors. This Supplement replaces all earlier Supplements, and contains the latest punching information available as of the date of publication.

CORRECTED PUNCHING DATA

In some copies of the Card Punch Data Booklet, the punching data for the following tube-types is in error. The data in the Booklet should be corrected to agree with the punching information shown below.

TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
3BZ6	A3 B4 B7 C2 D1 F6 G5 I7 I10 J1 K3 K4 L1 L6 L7 M2 M6 N4 N6	
3DG4	A1 B3 F5 G7 K2 K3 L4 L6 L10 M4 M6 N1 N6	Test P1 and P2. Reject if below 4.
4BZ6	A3 B4 C2 C7 D1 E6 G5 I7 I10 J1 K5 K6 L1 L6 L7 M1 M6 N4 N6	
6AK8 Triode Unit	A4 B5 C7 D8 G9 J2 K7 K8 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6AK8 Diode Unit 1	A4 B5 C3 C7 G6 I6 I10 K8 L3 M5 M10 N2 N9	Test P1 only. Reject if below 1.
6AK8 Diode Unit 2	A4 B5 C3 C7 F2 H1 I6 I10 K7 L3 L6 L8 M5 M10 N2 N9	Test P2 and P3 only. Reject if below 3.
6AU7	A4 B5 C3 C8 D2 D7 F1 G6 I6 I10 J5 K4 L1 M5 M10 N2 N9	Test P1 and P2.
6BZ6	A3 B4 C2 C7 D1 E6 G5 I7 I10 J1 K5 K6 L1 L6 L7 M5 M10 N2 N9	
6ET6	Correct F6 to read E6	
7AU7	A4 B5 C3 C8 D2 D7 F1 G6 I6 I10 J5 K4 L1 M4 M10 N2 N9	Test P1 and P2.
8CS7	Add M5 hole to Triode Unit 2 Data	
12AE6A Triode Unit	A3 B4 C2 D1 G7 I6 I10 J1 K6 K8 L2 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test. For 12AE6 without suffix "A", reject if below 3.5.

TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
12AU7	A4 B5 C3 C8 D2 D7 F1 G6 I6 I10 J5 K4 L1 M2 M10 N3 N9	Test P1 and P2.
12BZ6	A3 B4 C2 C7 D1 E6 G5 I7 I10 J1 K5 K6 L1 L6 L7 M2 M10 N4 N9	
12FX8	Correct Heptode Data—Change B4 to read B5	
21A6	Change 21A8/PL81 data to read 21A6/PL81. Remove 21A8/PL81 heading	
32ET5	A3 B4 C1 D2 E6 G7 I6 I10 J9 K4 L1 L6 L7 M2 M10 N3 N8	
35EH5	A3 B4 C1 D2 E6 G7 I7 I10 J1 K6 L1 L6 L8 M1 M10 N5 N8	
50FY8 Triode Unit	A4 B5 C8 D1 G9 J2 K5 L1 M5 M7 N5 N6	Depress Special Leakage/Gas Button in gas test.
50FY8 Pentode Unit	A4 B5 C2 D3 E7 G6 I8 I10 J1 K2 L1 L6 L7 M5 M7 N5 N6	
5886	A3 B4 D6 E2 G1 J6 K10 L2 M2 M6 N1 N6	Use WG-338A Adaptor. Start red dot end at Pin 1. Normal GM = 1.4.
6354	A2 G1 K7 L1 L6 L9 M5 M7 N5 N6	
DF96	Correct listing to read, Use 1AJ4 Card.	

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NEW PUNCHING INFORMATION

TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
1A4	A1 B4 D10 E3 G2 J7 K3 L1 M3 M6 N2 N6	Use WG-337A-4 Adaptor.
1AU2	A4 B5 G9 K9 L5 M2 M6 N1 N6	Reject if below 2.
1AU3	A7 B2 G10 K10 L5 M1 M6 N2 N6	Reject if below 3.
1B4	A1 B4 D10 E3 G2 J10 K9 L1 M3 M6 N2 N6	Use WG-337A-4 Adaptor.
1B5/25S Triode Unit	A1 B6 D5 G2 J6 K8 L1 M3 M6 N2 N6	Use WG-337A-6 Adaptor.
1B5/25S Diode Unit	A1 B6 F3 G4 K3 L4 M3 M6 N2 N6	Use WG-337A-6 Adaptor. Test P1 and P2. Reject if below 3.
1H4G	A2 B7 D5 G3 J8 K3 K4 L1 M3 M6 N2 N6	
1K6 Tetrode Unit	A1 B6 D10 E5 G2 J7 K6 K8 L1 M3 M6 N2 N6	Use WG-337A-6 Adaptor.
1K6 Diode Unit	A1 B6 F3 G4 K9 L3 M3 M6 N2 N6	Use WG-337A-6 Adaptor. Test P1and P2. Reject if below 1.
1LF3	Use 1LE3 Data.	
2CW4	A3 B1 B5 C2 D6 G4 I6 I8 J1 K1 K2 L1 L6 L7 M3 M6 N2 N6	Use Nuvistor Adaptor WG-340A.
2DS4	A3 B1 B5 C2 D6 G4 I6 I8 J1 K3 K4 L1 L6 L7 M3 M6 N2 N6	Use Nuvistor Adaptor WG-340A.
2DV4	A2 B4 B8 C6 D5 D7 G1 G3 I6 I10 J5 K1 K3 L1 L6 L7 M3 M6 N2 N6	Use 7-Pin Nuvistor Socket Adaptor (see last page). Depress Special Leakage/Gas Button in gas test.
2DZ4	A3 B4 C5 D2 D6 G1 G7 J1 K6 L1 L6 L7 M3 M6 N2 N6	
2E41	Use 2E42 Data.	
2E42 Diode Unit	A4 B6 G3 K10 L3 M2 M6 N1 N6	Red mark at Pin 1 end. Reject if below 1.0.
2E42 Pentode Unit	A4 B6 D5 E2 G1 J2 K10 L4 M2 M6 N1 N6	Red mark at Pin 1 end. Reject if below 3.0. Depress Special Leakage/Gas Button in gas test.
2FQ5	A3 B4 B6 C1 C7 D2 G5 I6 I10 J3 K7 L1 L6 L8 M3 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
2FS5	A3 B4 C2 C7 D1 E6 G5 I6 I10 J1 K1 L1 L6 L7 M3 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
2GK5	A3 B4 B6 C1 C7 D2 G5 I6 I10 J2 K5 K6 L1 L6 L8 M3 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
2GU5	A3 B4 C2 C7 D1 E6 G5 I6 I10 J2 K4 K5 L1 L6 L7 M3 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
2GW5	A3 B4 B7 C5 D2 D6 G1 I6 I10 J2 K6 L1 L6 L8 M3 M6 N2 N6	
2HA5	A3 B4 B6 C2 C7 D1 G5 I6 I10 J2 K6 K7 L1 L6 L8 M3 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
2HK5	A3 B4 B6 C2 C7 D1 G5 I6 I10 J2 K6 K7 L1 L6 L8 M3 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
2L2	A1 B9 G10 K3 K4 L5 M3 M6 N2 N6	Insert base leads into Pins 1 and 9 of 9-pin socket. Connect cap lead to cap of tube.
3AW3	Use 3A3 Data	
3BX6	A4 B5 C1 C3 C6 C9 D2 E8 G7 I6 I10 J2 K2 L1 L6 L7 M3 M6 N1 N6	Depress Special Leakage/Gas Button in gas test.
3DZ4	A3 B4 C5 D2 D6 G1 G7 J1 K6 L1 L6 L7 M4 M6 N2 N6	
3FQ5	A3 B4 B6 C1 C7 D2 G5 I6 I10 J3 K7 L1 L6 L8 M4 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
3FS5	A3 B4 C2 C7 D1 E6 G5 I6 I10 J1 K1 L1 L6 L7 M4 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
3GK5	A3 B4 B6 C1 C7 D2 G5 I6 I10 J2 K5 K6 L1 L6 L8 M4 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
3GS8	A4 B5 C1 C6 C9 D7 E2 F3 G8 I6 I10 J1 K7 L1 M4 M6 N2 N6	Test P1 and P2. Reject if below 3.
3GU5	A3 B4 C2 C7 D1 E6 G5 I6 I10 J2 K4 K5 L1 L6 L7 M3 M6 N1 N6	Depress Special Leakage/Gas Button in gas test.
3GW5	A3 B4 B7 C5 D2 D6 G1 I6 I10 J2 K6 L1 L6 L8 M4 M6 N2 N6	
3HA5	A3 B4 B6 C2 C7 D1 G5 I6 I10 J2 K6 K7 L1 L6 L8 M4 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
3HK5	A3 B4 B6 C2 C7 D1 G5 I6 I10 J2 K6 K7 L1 L6 L8 M4 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
3HM6	A4 B5 B9 C1 C3 D2 F8 G7 I7 I9 J1 K5 K8 L1 L6 L8 M4 M6 N2 N6	
3HS8	A4 B5 B6 B9 C1 D7 E2 F3 G8 I6 I10 J2 K8 K9 L1 M4 M6 N2 N2	Test P1 and P2. Reject if below 3.
3HT6	A4 B5 B9 C1 C3 D2 E8 G7 I7 I10 J2 K10 L1 L6 L9 M4 M6 N2 N6	
3JC6	A4 B5 B9 C1 C3 D2 E8 G7 I7 I10 J1 K7 K10 L1 L6 L9 M5 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
3JD6	A4 B5 B9 C1 C3 D2 E8 G7 I7 I10 J1 K6 K7 L1 L6 L8 M5 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
3KF8	A4 B5 C1 C6 C9 D7 E2 F3 G8 I6 I10 J3 K6 L1 M4 M6 N2 N6	Test P1 and P2.
4AV6 Diode Unit	A3 B4 C2 F5 G6 I6 I10 K7 L4 L6 L7 M4 M6 N1 N6	Test P1 and P2. Reject if below 4.
4AV6 Triode Unit	A3 B4 C2 D1 G7 I6 I10 J2 K8 L1 M4 M6 N1 N6	Depress Special Leakage/Gas Button in gas test.
4CM4	A4 B5 C3 C7 D2 D6 D8 G1 G9 I6 I10 J2 K1 L1 L6 L7 M5 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
4CK5	A3 B4 B6 C1 C7 D2 G5 I6 I10 J2 K5 K6 L1 L6 L8 M4 M6 N1 N6	Depress Special Leakage/Gas Button in gas test.
4GS8	A4 B5 C1 C6 C9 D7 E2 F3 G8 I6 I10 J1 K7 L1 M4 M6 N1 N6	Test P1 and P2. Reject if below 3.
4GW5	A3 B4 B7 C5 D2 D6 G1 I6 I10 J2 K6 L1 L6 L8 M4 M6 N1 N6	
*4GZ5	A3 B4 C1 D2 D5 E6 G7 I7 I9 J1 K6 K8 L1 L6 L8 M5 M10 N1 N9	
4HA5	A3 B4 B6 C2 C7 D1 G5 I6 I10 J2 K6 K7 L1 L6 L8 M5 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.

* Indicates corrected data. Discard previous punching information.

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
4HG8 Triode Unit	A4 B5 C3 D6 G7 I6 I10 J6 K5 L1 L6 L7 M4 M6 N1 N6	
4HG8 Pentode Unit	A4 B5 C1 D2 E9 G8 I6 I10 J2 K6 K7 L1 L6 L8 M4 M6 N1 N6	Depress Special Leakage/Gas Button in gas test.
4HK5	A3 B4 B6 C2 C7 D1 G5 I6 I10 J2 K6 K7 L1 L6 L8 M5 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
4HM6	A4 B5 B9 C1 C3 D2 E8 G7 I7 I9 J1 K5 K8 L1 L6 L8 M4 M6 N1 N6	
4HS8	A4 B5 B6 B9 C1 D7 E2 F3 G8 I6 I10 J2 K8 K9 L1 M4 M6 N1 N6	Test P1 and P2. Reject if below 3.
4HT6	A4 B5 B9 C1 C3 D2 E8 G7 I7 I10 J2 K10 L1 L6 L9 M4 M6 N1 N6	
4JC6	A4 B5 B9 C1 C3 D2 F8 G7 I7 I10 J1 K7 K10 L1 L6 L9 M5 M6 N1 N6	Depress Special Leakage/Gas Button in gas test.
4JD6	A4 B5 B9 C1 C3 D2 E8 G7 I7 I10 J1 K6 K7 L1 L6 L8 M5 M6 N1 N6	Depress Special Leakage/Gas Button in gas test.
4JK6	A3 B4 B7 C2 D1 E6 G5 I7 I10 J1 K5 L1 L6 L8 M5 M6 N2 N6	
4JL6	A3 B4 B7 C2 D1 E6 G5 I6 I7 J1 K7 K8 L1 L6 L8 M5 M6 N2 N6	
4KF8	A4 B5 C1 C6 C9 D7 E2 F3 G8 I6 I10 J3 K6 L1 M4 M6 N1 N6	Test P1 and P2.
4KN8	A4 B5 B9 C3 C8 D2 D7 F1 G6 I6 I10 J2 K4 K5 L1 L6 L8 M4 M6 N1 N6	Test P1 and P2.
5AF4	A3 B4 C5 D2 G1 I8 I10 J1 K3 L1 L6 L7 M5 M6 N1 N6	
5EW6	A3 B4 B7 C2 D1 E6 G5 I7 I9 J1 K7 L1 L6 L8 M4 M10 N1 N9	Depress Special Leakage/Gas Button in gas test.
5GX6 Grid 1 Test	A3 B4 B7 C2 D1 E6 G5 J1 K6 L1 M5 M6 N1 N6	
5GX6 Grid 3 Test	A3 B1 B4 C2 D7 E6 G5 J1 K10 L1 M5 M6 N1 N6	Reject if below 3.
5HG8 Triode Unit	A4 B5 C3 D6 G7 I6 I10 J6 K5 L1 L6 L7 M5 M10 N1 N9	
5HG8 Pentode Unit	A4 B5 C1 D2 E9 G8 I6 I10 J2 K6 K7 L1 L6 L8 M5 M10 N1 N9	Depress Special Leakage/Gas Button in gas test.
5JK6	A3 B4 B7 C2 D1 E6 G5 I7 I10 J1 K5 L1 L6 L8 M5 M6 N1 N6	
5JL6	A3 B4 B7 C2 D1 E6 G5 I6 I7 J1 K7 K8 L1 L6 L8 M5 M6 N1 N6	
5KD8 Triode Unit	A4 B5 B7 C8 D9 G1 I6 I10 J2 K4 K5 L1 L6 L7 M4 M10 N1 N9	
5KD8 Pentode Unit	A4 B5 C7 D2 E3 G6 I6 I10 J2 K5 L1 L6 L7 M4 M10 N1 N9	
5KE8 Triode Unit	A4 B5 B7 C8 C9 G1 I7 I10 J1 K1 K2 L1 L6 L7 M4 M10 N1 N9	
5KE8 Pentode Unit	A4 B1 B5 C7 D2 E3 G6 I6 I9 J1 K5 K7 L1 L6 L8 M4 M10 N1 N9	Depress Special Leakage/Gas Button in gas test.
6AE8 Triode Unit	A4 B1 B2 B5 B6 C3 D7 G8 I6 I10 J5 K6 K7 L1 M5 M10 N2 N9	
6AE8 Hexode Unit	A4 B5 B7 C3 D2 E1 G6 I6 I10 J5 K7 L1 M5 M10 N2 N9	
6AL3	A4 B5 C10 G3 G8 G9 K2 K3 L4 L6 L9 M3 M10 N1 N9	Reject if below 4.
6AR7 Pentode Unit	A1 B8 C7 D10 E4 G3 I6 I10 J6 K4 K5 L1 M5 M10 N2 N9	
6AR7 Diode Unit	A1 B8 C7 F5 G6 K6 K7 L4 L6 L7 M5 M10 N2 N9	Test P1 and P2. Reject if below 3.
6AU7	A4 B5 C3 C8 D2 D7 F1 G6 I6 I10 J5 K9 L1 L6 L7 M5 M10 N2 N9	Test P1 and P2.
6AX7	A4 B5 C3 C8 D2 D7 F1 G6 I6 I10 J2 K8 L1 M5 M10 N2 N9	Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
6B07/EBC 81 Triode Unit	A4 B5 C3 D2 G1 I6 I10 J2 K6 K7 L1 M5 M10 N2 N9	Depress Special Leakage/Gac Button in gas test.
6BD7/EBC 81 Diode Unit	A4 B5 C3 F8 G6 K3 L4 M5 M10 N2 N9	Test P1 and P2. Reject if below 3.
6BF8 Diode Units 1, 2, 3	A4 B5 C6 F8 G9 H7 I6 I10 K3 K4 L3 L6 L7 M5 M10 N2 N9	Test P1, P2 and P3. Reject if below 2.
6BF8 Diode Units 4, 5, 6	A4 B5 C6 F2 G3 H1 I6 I10 K3 K4 L3 L6 L7 M5 M10 N2 N9	Test P1, P2 and P3. Reject if below 2.
6BJ5	A3 B4 C2 D1 E7 G5 I6 I10 J3 K3 L1 L6 L7 M3 M10 N1 N9	
6BK6	Use 6AV6 Data.	
6BL8 Triode Unit	A4 B5 C8 D9 G1 I6 I10 J4 K5 L1 L6 L7 M5 M10 N2 N9	
6BL8 Pentode Unit	A4 B5 C7 D2 E3 G6 I6 I10 J2 K4 L1 L6 L7 M5 M10 N2 N9	
6BR3	A4 B5 C10 G9 K8 L4 L6 L10 M4 M10 N2 N9	Reject if below 4.
6BV7 Pentode Unit	A4 B5 C9 D8 E3 G2 I6 I10 J5 K2 L1 L6 L8 M5 M10 N2 N9	
6BV7 Diode Unit	A4 B5 C7 F1 G6 K4 K5 L3 M5 M10 N2 N9	Test P1 and P2. Reject if below 2.
6BX8	A4 B5 B9 C3 C8 D2 D7 F1 G6 I6 I10 J4 K2 L1 L6 L7 M5 M10 N2 N9	Test P1 and P2. Use Special Leakage Test.
6CM4	A4 B5 C3 C7 D2 D6 D8 G1 G9 I6 I10 J2 K1 L1 L6 L7 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6CR4	A7 B8 C1 D1 D3 D4 D6 D9 G5 I6 I10 J2 K5 L1 L6 L8 M5 M10 N2 N9	
6CS5	Use 6HD5 Data.	
6DL4	A4 B5 C2 D1 D3 D6 D7 D9 G8 I7 I9 J1 K1 L1 L6 L7 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6DM4	A7 B8 C3 G5 I6 I10 K6 L4 L6 L10 M4 M10 N2 N9	Reject if below 4.
6DQ4	Use 6AX4 Data.	
6DR4	A3 B4 C7 D6 G1 G5 I6 I10 J2 K8 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6DS4	A3 B1 B5 C2 D6 G4 I6 I8 J1 K3 K4 L1 L6 L7 M5 M10 N2 N9	Use Nuvistor WG-340A Adaptor.
6DT4	A7 B8 C3 G5 I6 I10 K5 L4 L6 L10 M4 M10 N2 N9	Reject if below 4.
6DV4	A2 B4 B8 C6 D5 D7 G1 G3 I6 I10 J5 K1 K3 L1 L6 L7 M5 M10 N2 N9	Use 7-Pin Nuvistor Socket Adaptor (see last page). Depress Special Leakage/Gas Button in gas test.
6DX8 Triode Unit	A4 B5 B7 C3 D1 G2 I6 I10 J2 K8 L1 L6 L7 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6DX8 Pentode Unit	A4 B5 C7 D8 E9 G6 I6 I10 J3 K2 L1 L6 L7 M5 M10 N2 N9	
6DZ4	A3 B4 C5 D2 D6 G1 G7 J1 K6 L1 L6 L7 M5 M10 N2 N9	

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
6E7	A1 B7 C4 C6 D10 E3 G2 I6 I10 J6 K10 L1 L6 L7 M5 M10 N2 N9	Use WG-337A-7 Adaptor.
6EC7	A4 B5 C1 C3 C6 C9 D2 E8 G7 I6 I10 J3 K6 L1 L6 L7 M5 M10 N2 N9	
6EL7	A4 B5 B6 C1 C3 C9 D2 E8 G7 I7 I9 J1 K1 K2 L1 L6 L7 M5 M10 N2 N9	
6ES6	A3 B4 C2 C7 D1 G5 G6 I6 I10 J6 K7 K10 L2 M5 M10 N2 N9	
6ET7 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K10 L1 L6 L9 M3 M10 N1 N9	
6ET7 Diode Unit	A4 B5 C1 F2 G3 K3 K4 L4 M3 M10 N1 N9	Test P1 and P2. Reject if below 3.
6EW7 Triode Unit 1	A4 B5 C8 D7 G6 I6 I10 J7 K10 L1 L6 L7 M3 M10 N1 N9	
6EW7 Triode Unit 2	A4 B5 C9 D2 G1 I6 I10 J10 K3 L1 L6 L7 M3 M10 N1 N9	
6F18	Use 6EC7 Data.	
6FC7	A4 B5 C3 C8 D2 D7 F1 G6 I6 I8 J1 K3 L1 L6 L7 M5 M10 N2 N9	Test P1 and P2. Special Leakage Test.
6FD6	A3 B4 C2 C7 D1 E6 G5 I6 I10 J2 K6 L2 M5 M10 N2 N9	
6FN5	A2 B7 C3 C6 D4 D5 E1 E8 G10 I7 I10 J1 K5 K7 L1 L6 L8 M4 M10 N2 N9	
6FQ5	A3 B4 B6 C1 C7 D2 G5 I6 I10 J3 K7 L1 L6 L8 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6FQ7	Use 6CG7 data	
6FR7 Triode Unit 1	A4 B5 C8 D7 G6 I6 I10 J2 K6 K7 L1 M3 M10 N1 N9	Depress Special Leakage/Gas Button in gas test.
6FR7 Triode Unit 2	A4 B5 C9 D2 D3 G1 I6 I10 J10 K4 L1 L6 L7 M3 M10 N1 N9	
6FS5	A3 B4 C2 C7 D1 E6 G5 I6 I10 J1 K1 L1 L6 L7 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6GA8	A4 B5 C3 C8 C9 D2 D7 F1 G6 I6 I10 J7 K2 L1 M5 M10 N2 N9	Test P1 and P2.
6GC5	A4 B5 C7 D3 D6 E1 E8 G9 I6 I7 J1 K8 L1 L6 L8 M3 M10 N1 N9	
6GD7 Triode Unit	A4 B5 C3 C8 D1 G2 I6 I10 J2 K5 K7 L1 L6 L8 M5 M10 N2 N6	
6GD7 Pentode Unit	A4 B5 C3 C8 D9 E7 G6 I7 I10 J1 K7 L1 L6 L8 M5 M10 N2 N9	
6GK5	A3 B4 B6 C1 C7 D2 G5 I6 I10 J2 K5 K6 L1 L6 L8 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6GL7 Triode Unit 1	A7 B8 C8 D4 G5 I6 I10 J2 K6 K7 L1 M3 M10 N1 N9	Depress Special Leakage/Gas Button in gas test.
6GL7 Triode Unit 2	A7 B8 C3 D1 G2 I6 I10 J10 K5 K6 L1 L6 L7 M3 M10 N1 N9	
6GM5	A4 B5 C7 D6 E1 G9 I6 I10 J5 K2 L1 L6 L7 M3 M10 N1 N9	
6GM8	A4 B5 B9 C3 C8 D2 D7 F1 G6 I7 I10 J1 K8 L2 L6 L7 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test. Test P1 and P2.
6GQ7	A4 B5 C1 C7 C9 F6 G8 H2 I6 I10 K7 L3 L6 L8 M5 M10 N2 N9	Test P1, P2 and P3. Reject if below 4.
6GS8	A4 B5 C1 C6 C9 D7 E2 F3 G8 I6 I10 J1 K7 L1 M5 M10 N2 N9	Test P1 and P2. Reject if below 3.
6GU5	A3 B4 C2 C7 D1 E6 G5 I6 I10 J2 K4 K5 L1 L6 L7 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6GU7	A4 B5 C3 C8 D2 D7 F1 G6 I6 I10 J7 K8 L1 L6 L7 M5 M10 N2 N9	Test P1 and P2.
6GV8 Triode Unit	A4 B5 C3 C8 D2 G1 I6 I10 J2 K4 K5 L1 L6 L7 M3 M10 N1 N9	
6GV8 Pentode Unit	A4 B5 C8 D9 E7 G6 I6 I10 J9 K1 K3 L1 L6 L7 M3 M10 N1 N9	
6GW5	A3 B4 B7 C5 D2 D6 G1 I6 I10 J2 K6 L1 L6 L8 M5 M10 N2 N9	
6GW8 Triode Unit	A4 B5 C2 D1 G9 I6 I10 J2 K9 K10 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6GW8 Pentode Unit	A4 B5 C7 D8 E3 G6 I6 I10 J5 K2 L1 L6 L7 M5 M10 N2 N9	
6GX6 Grid 1 Test	A3 B4 B7 C2 D1 E6 G5 J1 K6 L1 M5 M10 N2 N9	
6GX6 Grid 3 Test	A3 B1 B4 C2 D7 E6 G5 J1 K10 L1 M5 M10 N2 N9	Reject if below 3.
6GY6	Use 6GX6 data	
6GY8	A5 B4 C1 C3 C7 C8 F9 G6 H2 I6 I10 K4 K5 L5 M5 M10 N2 N9	Test P1 - P2 - P3. Reject if below 3. Shows Short on K. Emission Test Only.
6GZ5	A3 B4 C1 D2 D5 E6 G7 I7 I9 J1 K6 K8 L1 L6 L8 M5 M10 N2 N9	
6HA5	A3 B4 B6 C2 C7 D1 G5 I6 I10 J2 K6 K7 L1 L6 L8 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6HB6	A4 B3 B5 B9 C1 D2 E8 G7 I6 I9 J1 K3 K4 L1 L6 L8 M3 M10 N1 N9	
6HC8 Pentode Unit	A4 B5 C2 D3 E7 G6 I6 I10 J9 K7 L1 L6 L7 M4 M10 N2 N9	
6HC8 Triode Unit	A4 B2 B5 C8 D1 G9 I6 I10 J3 K5 K6 L1 M4 M10 N2 N9	Reject if below 3. Depress Special Leakage/Gas Button in gas test.
6HF8 Triode Unit	A4 B5 C1 D2 G3 I6 I10 J2 K7 K8 L1 L6 L7 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6HF8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I10 J1 K7 L1 L6 L8 M5 M10 N2 N9	
6HG8 Triode Unit	A4 B5 C3 D6 G7 I6 I10 J6 K5 L1 L6 L7 M5 M10 N2 N9	
6HG8 Pentode Unit	A4 B5 C1 D2 E9 G8 I6 I10 J2 K6 K7 L1 L6 L8 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6HJ8 Pentode Unit	A4 B5 B9 C1 D2 E3 G6 I7 I10 J1 K7 K8 L1 L6 L8 M5 M10 N2 N9	
6HJ8 ~~Diode~~ Unit	A4 B5 B9 C7 G8 I6 I10 K6 K7 L3 L6 L8 M5 M10 N2 N9	Reject if below 3.
6HK5	A3 B4 B6 C2 C7 D1 G5 I6 I10 J2 K6 K7 L1 L6 L8 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6HL8 Triode Unit	A4 B5 B7 C8 D9 G1 I6 I10 J2 K5 L1 L6 L7 M5 M10 N2 N9	
6HL8 Pentode Unit	A4 B5 C7 D2 E3 G6 I6 I10 J2 K2 L1 L6 L7 M5 M10 N2 N9	
6HM6	A4 B5 B9 C1 C3 D2 E8 G7 I7 I9 J1 K5 K8 L1 L6 L8 M5 M10 N2 N9	
6HQ6	A3 B4 B7 C2 D1 E6 G5 I7 I10 J1 K7 L1 L6 L8 M5 M10 N2 N9	
6HR6	A3 B2 B4 C7 D1 E6 G5 I7 I10 J1 K2 K3 L1 L6 L7 M5 M10 N2 N9	

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
6HS6	A3 B2 B4 C7 D1 E6 G5 I8 I10 J1 K2 K3 L1 L6 L7 M5 M10 N2 N9	
6HS8	A4 B5 B6 B9 C1 D7 E2 F3 G8 I6 I10 J2 K8 K9 L1 M5 M10 N2 N9	Test P1 and P2. Reject if below 3.
6HT6	A4 B5 B9 C1 C3 D2 E8 G7 I7 I10 J2 K10 L1 L6 L9 M5 M10 N2 N9	
6HU6	A4 B5 C3 D1 E6 F7 G9 I6 I10 J5 K8 L1 M5 M10 N2 N9	P1—Test triode quality. Eye ½ open. P2—Eye completely closed.
6HU8	A4 B5 C7 D2 D6 E1 E9 F8 G3 I8 I10 J1 K5 K7 L1 L6 L7 M3 M10 N1 N9	Test P1 and P2.
6HW8 Deflection Plate 1	A4 B5 C1 C7 D6 E3 E9 F2 G8 I6 I9 J1 K9 L1 M5 M10 N2 N9	Reject if below 2 on P1. Reject if above 0 on P2.
6HW8 Deflection Plate 2	A4 B5 C7 C9 D6 E1 E3 F8 G2 I6 I9 J1 K9 L1 M5 M10 N2 N9	Reject if below 2 on P1. Reject if above 0 on P2.
6HZ6	A3 B4 B7 C2 D1 E6 G5 I8 I9 J1 K9 L1 L6 L7 M5 M10 N2 N9	
6HZ8 Triode Unit	A4 B5 C1 D2 G3 J1 K7 K8 L1 L6 L7 M3 M10 N1 N9	Depress Special Leakage/Gas Button in gas test.
6HZ8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I10 J1 K6 K7 L1 L6 L8 M3 M10 N1 N9	
6JA8 Triode Unit	A4 B4 B6 C1 D2 G3 I6 I10 J3 K7 L1 L6 L7 M3 M10 N1 N9	Depress Special Leakage/Gas Button in gas test.
6JA8 Tetrode Unit	A4 B5 C6 D7 E8 G9 I6 I10 J2 K5 L1 L6 L8 M3 M10 N1 N9	
6JC6	A4 B5 B9 C1 C3 D2 E8 G7 I7 I10 J1 K7 K10 L1 L6 L9 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6JC8 Triode Unit	A4 B5 C1 C7 D8 G9 I6 I10 J2 K4 L1 L6 L7 M5 M10 N2 N9	
6JC8 Pentode Unit	A4 B5 C1 C7 D2 E3 G6 I6 I10 J2 K6 L1 L6 L7 M5 M10 N2 N9	
6JD6	A4 B5 B9 C1 C3 D2 E8 G7 I7 I10 J1 K6 K7 L1 L6 L8 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6JE8 Triode Unit	A4 B5 C1 D2 G3 J1 K7 K8 L1 L6 L7 M3 M10 N1 N9	Depress Special Leakage/Gas Button in gas test.
6JE8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I10 J1 K1 L1 L6 L7 M3 M10 N1 N9	
6JH6	A3 B4 C2 C7 D1 E6 G5 I6 I7 J1 K5 L1 L6 L7 M5 M10 N2 N9	
6JH8	A4 B1 B2 B5 C7 D6 E3 F8 G9 I8 I10 J1 K3 L1 M5 M10 N2 N9	Test P1 and P2.
6JK6	A3 B4 B7 C2 D1 E6 G5 I7 K10 J1 K5 L1 L6 L8 M5 M10 N2 N9	
6JK8 Triode Unit 1	A4 B5 B9 C8 D7 G6 I6 I10 J2 K2 L1 L6 L7 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6JK8 Triode Unit 2	A4 B5 B9 C3 D2 G1 I6 I10 J3 K7 K8 L1 L6 L8 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6JL6	A3 B4 B7 C2 D1 E6 G5 I6 I7 J1 K7 K8 L1 L6 L8 M5 M10 N2 N9	
6JL8 Triode Unit	A4 B5 C1 D2 G3 I8 I9 J1 K6 L1 L6 L7 M5 M10 N2 N9	
6JL8 Pentode Unit	A4 B5 C6 D7 E8 G9 I6 I10 J4 K6 L1 L6 L8 M5 M10 N2 N9	

TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
6JT8 Triode Unit	A4 B5 B6 C1 D2 G3 I6 I10 J2 K6 K7 L1 M3 M10 N1 N9	Depress Special Leakage/Gas Button in gas test.
6JT8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K4 L1 L6 L8 M3 M10 N1 N9	
6JU8 Diode Units 1, 2	A4 B5 B6 C3 C9 F2 G8 I6 I10 K7 L3 L6 L8 M5 M10 N2 N9	Test P1 and P2. Reject if below 4.
6JU8 Diode Units 3, 4	A4 B5 B6 C2 C8 F1 G7 I6 I10 K7 L3 L6 L8 M5 M10 N2 N9	Test P1 and P2. Reject if below 4.
6JV8 Triode Unit	Use 6AW8 Triode Card.	
6JV8 Pentode Unit	A4 B5 C6 D7 E8 G9 I6 I10 J2 K6 K7 L1 L6 L8 M5 M10 N2 N9	
6KA8 Triode Unit	A4 B5 C3 D2 G1 I6 I10 J2 K1 K3 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6KA8 Pentode Unit Grid 1 Test	A4 B5 B7 C3 D6 E8 G9 I6 I7 J1 K4 K5 L1 M5 M10 N2 N9	
6KA8 Pentode Unit Grid 3 Test	A4 B5 B6 C3 D7 E8 G9 I6 I7 J1 K10 L1 M5 M10 N2 N9	Reject if below 3.
6KD8 Triode Unit	A4 B5 B7 C8 D9 G1 I6 I10 J2 K4 K5 L1 L6 L7 M5 M10 N2 N9	
6KD8 Pentode Unit	A4 B5 C7 D2 E3 G6 I6 I10 J2 K5 L1 L6 L7 M5 M10 N2 N9	
6KE8 Triode Unit	A4 B5 B7 C8 D9 G1 I7 I10 J1 K1 K2 L1 L6 L7 M5 M10 N2 N9	
6KE8 Pentode Unit	A4 B1 B5 C7 D2 E3 G6 I6 I9 J1 K5 K7 L1 L6 L8 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6KF8	A4 B5 C1 C6 C9 D7 E2 F3 G8 I6 I10 J3 K6 L1 M5 M10 N2 N9	Test P1 and P2.
6KL8 Diode Unit	A4 B5 B9 C3 G8 K3 L4 M5 M10 N2 N9	Reject if below 1.0.
6KL8 Pentode Unit	A4 B1 B5 B9 C3 D2 E6 G7 I8 I10 J1 K7 L1 L6 L7 M5 M10 N2 N9	
6KM8 Tetrode Unit	A4 B5 C6 D7 E8 F2 G9 H1 I6 I10 J2 K8 K9 L1 M5 M10 N2 N9	Reject if below 4 on P1. Reject if below 2 on P2 and P3.
6KM8 Diode Unit	A4 B5 C6 G3 K3 K4 L4 M5 M10 N2 N9	Reject if below 2.
6KN8	A4 B5 B9 C3 C8 D2 D7 F1 G6 I6 I10 J2 K4 K5 L1 L6 L8 M5 M10 N2 N9	Test P1 and P2.
6KS8 Triode Unit	A4 B5 B6 C1 D2 G3 I6 I10 J2 K10 L1 L6 L8 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6KS8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K10 L1 L6 L9 M5 M10 N2 N9	
6KT8 Triode Unit	A4 B5 C1 D2 G3 I6 I10 J2 K8 L1 L6 L7 M3 M10 N1 N9	Depress Special Leakage/Gas Button in gas test.
6KT8 Pentode Unit	A4 B5 C6 D7 E8 G9 I6 I10 J2 K8 L1 L6 L8 M3 M10 N1 N9	
6KU8 Diode Unit	A4 B5 B6 C1 F2 G3 I6 I10 K1 L4 M3 M10 N1 N9	Test P1 and P2. Reject if below 2.
6KU8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K4 L1 L6 L8 M3 M10 N1 N9	
6KV8 Triode Unit	A4 B5 B6 C1 D2 G3 I6 I10 J2 K7 L1 L6 L7 M3 M10 N1 N9	Depress Special Leakage/Gas Button in gas test.
6KV8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K5 L1 L6 L8 M3 M10 N1 N9	
6KZ8 Pentode Unit	A4 B5 C3 D2 E7 G6 I6 I10 J2 K4 L1 L6 L7 M5 M10 N2 N9	

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
6KZ8 Triode Unit	A4 B3 B5 C8 C9 G1 I6 I10 J2 K3 L1 L6 L7 M5 M10 N2 N9	
6LB8 Triode Unit	A4 B5 B6 C1 D2 G3 I7 I10 J1 K7 L1 L6 L7 M3 M10 N1 N9	
6LB8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K4 L1 L6 L8 M3 M10 N1 N9	
6LC8 Triode Unit	A4 B5 C3 D2 G1 I6 I10 J2 K1 K3 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6LC8 Pentode Unit Grid 1 Test	A4 B3 B5 C7 D6 E8 G9 I6 I7 J1 K4 K5 L1 M5 M10 N2 N9	
6LC8 Pentode Unit Grid 3 Test	A4 B5 B6 C7 D3 E8 G9 I6 I7 J1 K10 L1 M5 M10 N2 N9	Reject if below 3.
6SZ7 Triode Unit	A7 B8 C3 C4 C5 D2 G6 I6 I10 J2 K8 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6SZ7 Diode Unit	A7 B8 C3 F4 G5 I6 I10 K7 L4 L6 L7 M5 M10 N2 N9	Test P1 and P2. Reject if below 4.
6ZY5	Use 6X5 Data.	
7ED7	A4 B5 C1 C3 C6 C9 D2 E8 G7 I6 I10 J2 K1 K2 L1 L6 L7 M3 M10 N2 N9	
7EK7	A4 B5 C1 C7 C8 D2 D6 F1 G9 I7 I9 J1 K2 L1 L6 L7 M4 M10 N2 N9	Test P1 and P2.
7FC7	A4 B5 C3 C8 D2 D7 F1 G6 I6 I8 J1 K3 L1 L6 L7 M3 M10 N2 N9	Test P1 and P2. Special Leakage Test.
7HG8 Triode Unit	A4 B5 C3 D6 G7 I6 I10 J6 K5 L1 L6 L7 M3 M10 N2 N9	
7HG8 Pentode Unit	A4 B5 C1 D2 E9 G8 I6 I10 J2 K6 K7 L1 L6 L8 M3 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
8A8 Pentode Unit	A4 B1 B5 C7 D2 E3 G6 I6 I10 J3 K5 L1 L6 L7 M5 M10 N3 N9	
8A8 Triode Unit	A4 B5 B7 C8 D9 G1 I6 I10 J4 K5 K6 L1 L6 L7 M5 M10 N3 N9	
8B8 Pentode Unit	A4 B5 C2 D3 E7 G6 I6 I10 J9 K3 L1 L6 L7 M3 M10 N2 N9	
8B8 Triode Unit	A4 B5 C8 D1 G9 I6 I10 J2 K5 K6 L1 M3 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
8ET7 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K10 L1 L6 L9 M5 M10 N3 N9	
8ET7 Diode Unit	A4 B5 C1 F2 G3 K3 K4 L4 M5 M10 N3 N9	Test P1 and P2. Reject if below 3.
8EV7	A4 B5 C3 C8 D2 D7 F1 G6 I7 I10 J1 K6 K7 L1 L6 L7 M5 M10 N3 N9	Test P1 and P2.
8FQ7	Use 8CG7 data	
8HG8 Triode Unit	A4 B5 C3 D6 G7 I6 I10 J6 K5 L1 L6 L7 M5 M10 N3 N9	
8HG8 Pentode Unit	A4 B5 C1 D2 E9 G8 I6 I10 J2 K6 K7 L1 L6 L8 M5 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
8JE8 Triode Unit	A4 B5 C1 D2 G3 J1 K7 K8 L1 L6 L7 M5 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
8JE8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I10 J1 K1 L1 L6 L7 M5 M10 N3 N9	
8JK8 Triode Unit 1	A4 B5 B9 C8 D7 G6 I6 I110 J2 K2 L1 L6 L7 M5 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
8JK8 Triode Unit 2	A4 B5 B9 C3 D2 G1 I6 I10 J3 K7 K8 L1 L6 L8 M5 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
8JL8 Triode Unit	A4 B5 C1 D2 G3 I8 I9 J1 K6 L1 L6 L7 M5 M10 N3 N9	
8JL8 Pentode Unit	A4 B5 C6 D7 E8 G9 I6 I10 J4 K6 L1 L6 L8 M5 M10 N3 N9	
8JT8 Triode Unit	A4 B5 B6 C1 D2 G3 I6 I10 J2 K6 K7 L1 M3 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
8JT8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K4 L1 L6 L8 M3 M10 N2 N9	
8JV8 Triode Unit	A4 B5 C1 D2 G3 I6 I10 J2 K10 L1 L6 L8 M5 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
8JV8 Pentode Unit	A4 B5 C6 D7 E8 G9 I6 I10 J2 K6 K7 L1 L6 L8 M5 M10 N3 N9	
8KA8 Triode Unit	A4 B5 C3 D2 G1 I6 I10 J2 K1 K3 L1 M5 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
8KA8 Pentode Unit Grid 1 Test	A4 B5 B7 C3 D6 E8 G9 I6 I7 J1 K4 K5 L1 M5 M10 N3 N9	
8KA8 Pentode Unit Grid 3 Test	A4 B5 B6 C3 D7 E8 G9 I6 I7 J1 K10 L1 M5 M10 N3 N9	Reject if below 3.
8KS8 Triode Unit	A4 B5 B6 C1 D2 G3 I6 I10 J2 K10 L1 L6 L8 M5 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
8KS8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K10 L1 L6 L9 M5 M10 N3 N9	
8LC8 Triode Unit	A4 B5 C3 D2 G1 I6 I10 J2 K1 K3 L1 M5 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
8LC8 Pentode Unit Grid 1 Test	A4 B3 B5 C7 D6 E8 G9 I6 I7 J1 K4 K5 L1 M5 M10 N3 N9	
8LC8 Pentode Unit Grid 3 Test	A4 B5 B6 C7 D3 E8 G9 I6 I7 J1 K10 L1 M5 M10 N3 N9	Reject if below 3.
9A8 Pentode Unit	A4 B1 B5 C7 D2 E3 G6 I6 I10 J3 K5 L1 L6 L7 M4 M10 N3 N9	
9A8 Triode Unit	A4 B5 B7 C8 D9 G1 I6 I10 J4 K5 K6 L1 L6 L7 M4 M10 N3 N9	
9AB4	A4 B2 B3 C7 D6 G1 J1 K6 L1 L6 L7 M5 M10 N4 N9	
9CG8 Pentode Unit	A4 B5 C3 C8 D9 E7 G6 I7 I8 J1 K6 L1 L6 L7 M5 M10 N4 N9	
9CG8 Triode Unit	A4 B5 C3 D1 G2 I7 I9 J1 K3 L1 L6 L7 M5 M10 N4 N9	
9EA8 Triode Unit	A4 B5 C8 D9 G1 I6 I9 J1 K1 L1 L6 L7 M5 M10 N4 N9	
9EA8 Pentode Unit	A4 B5 C7 D2 E3 G6 I6 I10 J2 K3 L1 L6 L7 M5 M10 N4 N9	
9GB8 Triode Unit	A4 B5 B9 C3 D2 G1 I6 I10 J6 K6 K8 L1 L6 L7 M5 M10 N4 N9	
9GB8 Tetrode Unit	A4 B5 C9 D8 E7 G6 I6 I10 J2 K6 K7 L1 L6 L8 M5 M10 N4 N9	
9GV8 Triode Unit	A4 B5 C3 C8 D2 G1 I6 I10 J2 K4 K5 L1 L6 L7 M5 M10 N5 N9	
9GV8 Pentode Unit	A4 B5 C8 D9 E7 G6 I6 I10 J9 K1 K3 L1 L6 L7 M5 M10 N5 N9	
10DX8 Triode Unit	A4 B5 B7 C3 D1 G2 I6 I10 J2 K8 L1 L6 L7 M4 M10 N5 N9	Depress Special Leakage/Gas Button in gas test.
10DX8 Pentode Unit	A4 B5 C7 D8 E9 G6 I6 I10 J3 K2 L1 L6 L7 M4 M10 N5 N9	
10EM7 Triode Unit 1	A7 B8 C6 D4 G5 I6 I10 J2 K6 K7 L1 M5 M10 N5 N9	Depress Special Leakage/Gas Button in gas test.
10EM7 Triode Unit 2	A7 B8 C3 D1 G2 I6 I10 J10 K4 L1 L6 L7 M5 M10 N5 N9	

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
10EW7 Triode Unit 1	A4 B5 C8 D7 G6 I6 I10 J7 K10 L1 L6 L7 M4 M10 N5 N9	
10EW7 Triode Unit 2	A4 B5 C9 D2 G1 I6 I10 J10 K3 L1 L6 L7 M4 M10 N5 N9	
10FR7 Triode Unit 1	A4 B5 C8 D7 G6 I6 I10 J2 K6 K7 L1 M4 M10 N5 N9	Depress Special Leakage/Gas Button in gas test.
10FR7 Triode Unit 2	A4 B5 C9 D2 D3 G1 I6 I10 J10 K4 L1 L6 L7 M4 M10 N5 N9	
10GN8 Triode Unit	A4 B5 C1 D2 G3 I6 I10 J2 K3 L1 M4 M10 N5 N9	Depress Special Leakage/Gas Button in gas test.
10GN8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K7 L1 L6 L8 M4 M10 N5 N9	
10HF8 Triode Unit	A4 B5 C1 D2 G3 I6 I10 J2 K7 K8 L1 L6 L7 M4 M10 N5 N9	Depress Special Leakage/Gas Button in gas test.
10HF8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I10 J1 K7 L1 L6 L8 M4 M10 N5 N9	
10JA8 Triode Unit	A4 B5 B6 C1 D2 G3 I6 I10 J3 K7 L1 L6 L7 M3 M10 N4 N9	Depress Special Leakage/Gas Button in gas test.
10JA8 Tetrode Unit	A4 B5 C6 D7 E8 G9 I6 I10 J2 K5 L1 L6 L8 M3 M10 N4 N9	
10JT8 Triode Unit	A4 B5 B6 C1 D2 G3 I6 I10 J2 K6 K7 L1 M3 M10 N4 N9	Depress Special Leakage/Gas Button in gas test.
10JT8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K4 L1 L6 L8 M3 M10 N4 N9	
10JY8 Triode Unit	A4 B5 B6 C1 D2 G3 I7 I10 J1 K1 L1 L6 L7 M4 M10 N5 N9	
10JY8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K6 K7 L1 L6 L8 M4 M10 N5 N9	
10KU8 Diode Unit	A4 B5 B6 C1 F2 G3 I6 I10 K1 L4 M3 M10 N4 N9	Test P1 and P2. Reject if below 2.
10KU8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K4 L1 L6 L8 M3 M10 N4 N9	
10LB8 Triode Unit	A4 B5 B6 C1 D2 G3 I7 I10 J1 K7 L1 L6 L7 M3 M10 N4 N9	
10LB8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K4 L1 L6 L8 M3 M10 N4 N9	
11JE8 Triode Unit	A4 B5 C1 D2 G3 J1 K7 K8 L1 L6 L7 M4 M10 N5 N9	Depress Special Leakage/Gas Button in gas test.
11JE8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I10 J1 K1 L1 L6 L7 M4 M10 N5 N9	
11KV8 Triode Unit	A4 B5 B6 C1 D2 G3 I6 I10 J2 K7 L1 L6 L7 M1 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
11KV8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K5 L1 L6 L8 M1 M10 N2 N9	
12AU8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K8 L1 L6 L8 M2 M10 N3 N9	
12AU8 Triode Unit	A4 B5 C1 D2 G3 I8 I9 J1 K6 L1 L6 L7 M2 M10 N3 N9	
12BF5	A4 B5 C3 D2 E9 G7 I6 I10 J8 K1 K3 L1 L6 L7 M2 M10 N4 N9	
12BK6	Use 12AV6 Data.	
12BR3	A4 B5 C10 G9 K8 L4 L6 L10 M2 M10 N4 N9	Reject if below 4.
12BX6	A4 B5 C1 C3 C6 C9 D2 E8 G7 I6 I10 J2 K2 L1 L6 L7 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
12CD7	A2 B7 C8 D4 E5 F6 G3 J3 K10 L1 M2 M10 N4 N9	P1—Gm test—one eye open—one closed. P2—other eye open—second closed. P3—both eyes open. Depress Special Leakage/Gas Button in gas test.
12DF5	A4 B5 C3 C8 F1 G6 I6 I10 K8 L4 L6 L10 M2 M10 N3 N9	Test P1 and P2. Reject if below 2.
12DJ8	A4 B5 B9 C3 C8 D2 D7 F1 G6 I9 I10 J1 K1 L1 L6 L7 M2 M10 N3 N9	Test P1 and P2. Special Leakage Test.
12DK6	A3 B4 C2 C7 D1 E6 G5 I7 I10 J1 K7 L1 L6 L8 M2 M10 N4 N9	
12DM4	A7 B8 C3 G5 I6 I10 K6 L4 L6 L10 M2 M10 N4 N9	Reject if below 4.
12DM5	A3 B4 C1 D2 E6 G7 I6 I10 J9 K2 L1 L6 L7 M2 M10 N3 N9	
12DQ4	Use 12AX4 Data.	
12FV7	A4 A5 B9 C3 C8 D2 D7 F1 G6 I6 I10 J4 K6 L1 L6 L8 M3 M10 N1 N9	Test P1 and P2.
12FX5	A3 B4 C1 D2 D5 E6 G7 I7 I10 J1 K5 K7 L1 L6 L8 M2 M10 N4 N9	
12GN7	A4 A5 B6 C1 D2 E8 G7 I7 I10 J1 K3 L1 L6 L8 M3 M10 N1 N9	
12HU8	A4 B5 C7 D2 D6 E1 E9 F8 G3 I8 I10 J1 K5 K7 L1 L6 L7 M2 M10 N4 N9	Test P1 and P2.
12KL8 Diode Unit	A4 B5 B9 C3 G8 K3 I4 M2 M10 N3 N9	Reject if below 1.0.
12KL8 Pentode Unit	A4 B1 B5 B9 C3 D2 E6 G7 I8 I10 J1 K7 L1 L6 L7 M2 M10 N3 N9	
12L8	A6 B7 C2 D1 D3 E5 F4 G8 I6 I10 J6 K3 L1 M2 M10 N3 N9	Test P1 and P2.
13CW4	A3 B1 B5 C2 D6 G4 I6 I8 J1 K1 K2 L1 L6 L7 M1 M10 N3 N9	Use WG-340A Adaptor.
13D1	Use 1633 Data.	
13EC7	A4 B5 C1 C3 C6 C9 D2 E8 G7 I6 I10 J3 K6 L1 L6 L7 M2 M10 N4 N9	
13FR7 Triode Unit 1	A4 B5 C8 D7 G6 I6 I10 J2 K6 K7 L1 M1 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
13FR7 Triode Unit 2	A4 B5 C9 D2 D3 G1 I6 I10 J10 K4 L1 L6 L7 M1 M10 N3 N9	
13GB5	A4 B5 C3 C8 D1 D2 E6 E7 G10 I6 I10 J10 K6 K7 L1 L6 L8 M2 M10 N5 N9	
13GC8 Triode Unit	A4 B5 B6 C3 D2 G1 I6 I10 J5 K6 K7 L1 L6 L7 M2 M10 N4 N9	
13GC8 Tetrode Unit	A4 B5 C7 D9 E8 G6 I6 I10 J7 K2 L1 L6 L7 M2 M10 N4 N9	
14GT8 Triode Unit	A4 B5 C7 D8 G9 J2 K9 L1 M2 M10 N5 N9	Depress Special Leakage/Gas Button in gas test.
14GT8 Diode Unit	A4 B5 C1 C3 F6 G2 K1 L3 M2 M10 N5 N9	Test P1 and P2. Reject if below 3.
14JG8 Triode Unit	A4 B5 C7 D8 G9 I6 I10 J2 K6 K8 L1 M1 M10 N4 N9	Depress Special Leakage/Gas Button in gas test.
14JG8 Diode Unit	A4 B5 C1 C3 F6 G2 I6 I10 K3 K4 L3 L6 L7 M1 M10 N4 N9	Test P1 and P2. Reject if below 3.
15EA7 Triode Unit 1	A7 B8 C6 D4 G5 J2 K10 L1 L6 L7 M1 M10 N5 N9	Depress Special Leakage/Gas Button in gas test.
15EA7 Triode Unit 2	A7 B8 C3 D1 G2 J8 K6 L1 L6 L7 M1 M10 N5 N9	
15HB6	A4 B3 B5 B9 C1 D2 E8 G7 I6 I9 J1 K3 K4 L1 L6 L8 M5 M9 N1 N8	
16AQ3	A4 B5 C10 G3 G8 G9 K2 K3 L4 L6 L9 M4 M9 N2 N8	Reject if below 4.

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
16GK6	A4 B3 B5 B9 C1 D2 E8 G7 I6 I10 J5 K6 K7 L1 L6 L8 M4 M9 N1 N8	
16GK8 Triode Unit	A4 B2 B5 C8 D1 G9 I6 I10 J5 K6 L1 L6 L7 M5 M9 N2 N8	
16GK8 Tetrode Unit	A4 B5 C2 D3 E7 G6 I6 I10 J6 K5 K7 L1 L6 L8 M5 M9 N2 N8	
17BR3	A4 B5 C10 G9 K8 L4 L6 L10 M3 M9 N2 N8	Reject if below 4.
17DM4	A7 B8 C3 G5 I6 I10 K6 L4 L6 L10 M3 M9 N2 N8	Reject if below 4.
17DQ4	Use 17AX4 Data.	
17HC8 Pentode Unit	A4 B5 C2 D3 E7 G6 I6 I10 J9 K7 L1 L6 L7 M3 M9 N2 N8	
17HC8 Triode Unit	A4 B2 B5 C8 D1 G9 I6 I10 J3 K5 K6 L1 M3 M9 N2 N8	Reject if below 3. Depress Special Leakage/Gas Button in gas test.
17JK8 Triode Unit 1	A4 B5 B9 C8 D7 G6 I6 I10 J2 K2 L1 L6 L7 M M9 N2 N8	Depress Special Leakage/Gas Button in gas test.
17JK8 Triode Unit 2	A4 B5 B9 C3 D2 G1 I6 I10 J3 K7 K8 L1 L6 L8 M4 M9 N2 N8	Depress Special Leakage/Gas Button in gas test.
18HB8 Triode Unit	A4 B5 B8 C2 D1 G3 J1 K6 K8 L1 L6 L7 M5 M9 N3 N8	
18HB8 Pentode Unit	A4 B5 C8 D9 E6 G7 I8 I9 J1 K4 K5 L1 L6 L7 M5 M9 N3 N8	
19BR5	A4 B5 C2 D1 E3 E8 E9 G7 I6 I10 J2 K9 L1 M4 M9 N4 N8	P1—Gm test—shadow minimum. P2 or P3—shadow maximum.
19BX6	A4 B5 C1 C3 C6 C9 D2 E8 G7 I6 I10 J2 K2 L1 L6 L7 M5 M9 N5 N8	Depress Special Leakage/Gas Button in gas test.
19BY7	A4 B5 C1 C3 D2 E8 G7 I6 I7 J1 K6 L1 L6 L7 M4 M9 N3 N8	
19CS4	A7 B8 C10 G2 G3 G5 I6 I10 K4 L4 L6 L10 M5 M9 N5 N8	Reject if below 3.
19EW7 Triode Unit 1	A4 B5 C8 D7 G6 I6 I10 J7 K10 L1 L6 L7 M4 M9 N3 N8	
19EW7 Triode Unit 2	A4 B5 C9 D2 G1 I6 I10 J10 K3 L1 L6 L7 M4 M9 N3 N8	
19FL8 Pentode Unit	A4 B5 B9 C3 D2 E1 G6 I6 I10 J4 K6 K7 L1 L6 L7 M4 M9 N3 N8	
19FL8 Diode Unit	A4 B5 C3 F7 G8 I6 I10 K2 L4 M4 M9 N3 N8	Test P1 and P2. Reject if below 4.
19GQ7	A4 B5 C1 C7 C9 F6 G8 H2 I6 I10 K7 L3 L6 L8 M2 M9 N1 N8	Test P1, P2 and P3. Reject if below 4.
19HR6	A3 B2 B4 C7 D1 E6 G5 I7 I10 J1 K2 K3 L1 L6 L7 M2 M9 N1 N8	
19KG8 Pentode Unit	A4 B5 C8 D9 E7 G6 I6 I10 J2 K2 K3 L1 L6 L7 M4 M9 N3 N8	
19KG8 Triode Unit	A4 B5 B8 C3 D2 G1 I6 I10 J2 K2 L1 L6 L7 M4 M9 N3 N8	
19JN8 Triode Unit	A4 B5 B8 C3 D1 G2 I6 I10 J2 K2 K3 L1 L6 L7 M2 M9 N1 N8	
19JN8 Pentode Unit	A4 B5 C8 D9 E7 G6 I6 I10 J2 K3 L1 L6 L7 M2 M9 N1 N8	
19HR6	A3 B2 B4 C7 D1 E6 G5 I7 I10 J1 K2 K3 L1 L6 L7 M4 M9 N3 N8	
19HS6	A3 B2 B4 C7 D1 E6 G5 I8 I10 J1 K2 K3 L1 L6 L7 M2 M9 N1 N8	
19HV8 Triode Unit	A4 B5 C3 D1 G2 I6 I10 J2 K8 L1 M2 M9 N1 N8	Depress Special Leakage/Gas Button in gas test.
19HV8 Pentode Unit	A4 B5 C8 D9 E7 G6 I6 I10 J2 K4 L1 L6 L7 M2 M9 N1 N8	
19U5	A1 B6 C5 D3 E4 G2 I6 I10 J3 K10 L1 M4 M9 N3 N8	P1—Gm test—shadow minimum. P2—shadow maximum.
25BR3	A4 B5 C10 G9 K8 L4 L6 L10 M5 M10 N1 N8	Reject if below 4.
25DK4	A3 B4 C7 G5 I6 I10 K5 L4 L6 L10 M1 M9 N5 N8	Reject if below 4.
25FG6	A2 B7 C8 D5 E4 G10 I7 I10 J10 K3 L1 L6 L7 M4 M10 N1 N8	
35FN5	A2 B7 C3 C6 D4 D5 E1 E8 G10 I7 I10 J1 K5 K7 L1 L6 L8 M5 M8 N1 N7	
26AQ8	A4 B5 C3 C8 D2 D7 F1 G6 I6 I7 J1 K5 L1 L6 L7 M5 M10 N2 N8	Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
26BK6 Diode Unit	A3 B4 C2 F5 G6 I6 I10 K7 L4 L6 L7 M3 M10 N1 N8	Test P1 and P2. Reject if below 4.
26BK6 Triode Unit	A3 B4 C2 D1 G7 I6 I10 J2 K8 L1 M3 M10 N1 N8	Depress Special Leakage/Gas Button in gas test.
28AK8 Triode Unit	A4 B5 C7 D8 G9 J2 K7 K8 L1 M3 M10 N2 N8	Depress Special Leakage/Gas Button in gas test.
28AK8 Diode Unit 1	A4 B5 C3 C7 G6 I6 I10 K8 L3 M3 M10 N2 N8	Test P1 only. Reject if below 1.
28AK8 Diode Unit 2	A4 B5 C3 C7 F2 H1 I6 I10 K7 L3 L6 L8 M3 M10 N2 N8	Test P2 and P3 only. Reject if below 3.
30AE3	A4 B5 C10 G3 G8 G9 K2 K3 L4 L6 L9 M5 M10 N5 N8	Reject if below 4.
30C1	Use 9A8 Data.	
30CW5	A4 B5 C3 D2 E9 G7 I6 I10 J9 K6 L1 L6 L8 M5 M10 N5 N8	
30P5	Use 7ED7 Data.	
35HB8 Triode Unit	A4 B5 B8 C2 D1 G3 J1 K6 K8 L1 L6 L7 M5 M8 N1 N7	
35HB8 Pentode Unit	A4 B5 C8 D9 E6 G7 I8 I9 J1 K4 K5 L1 L6 L7 M5 M8 N1 N7	
36	A1 B5 C4 D10 E3 G2 I6 I10 J6 K8 K9 K10 L1 M5 M10 N2 N9	Use WG-337A-5 Adaptor.
37	A1 B5 C4 D3 G2 I6 I10 J8 K7 K8 L1 M5 M10 N2 N9	Use WG-337A-5 Adaptor.
38	A1 B5 C4 D10 E3 G2 I6 I10 J10 K8 K9 L1 M5 M10 N2 N9	Use WG-337A-5 Adaptor.
40FR5	A3 B4 C1 D2 D5 E6 G7 I6 I10 J9 K8 L1 L6 L8 M5 M8 N5 N7	
50FA5	A3 B4 C1 D2 D5 E6 G7 I6 I10 J9 K4 L1 L6 L7 M5 M7 N5 N6	
50FK5	A3 B4 C1 D2 D5 E6 G7 I7 I10 J1 K6 K7 L1 L6 L8 M5 M7 N5 N6	
50HC6	A3 B4 C1 D2 E5 G7 I7 I10 J1 K6 L1 L6 L8 M5 M7 N5 N6	
50HK6	A3 B4 C1 D2 E5 G7 I6 I10 J9 K1 L1 L6 L7 M5 M7 N5 N6	
55 Triode Unit	A1 B6 C5 D10 G2 I6 I10 J9 K7 K9 L1 M4 M6 N2 N6	Use WG-337A-6 Adaptor.
55 Diode Unit	A1 B6 C5 F3 G4 K1 L4 M4 M6 N2 N6	Use WG-337A-6 Adaptor. Test P1 and P2. Reject if below 3.
57	A1 B6 C4 C5 D10 E3 G2 I6 I10 J6 K8 L1 M4 M6 N2 N6	Use WG-337A-6 Adaptor.
59	A1 B7 C5 C6 D4 E3 G2 I6 I10 J9 K4 L1 M4 M6 N2 N6	Use WG-337A-7 Adaptor.
60FX5	A3 B4 C1 D2 D5 E6 G7 I7 I10 J1 K6 L1 L6 L8 M5 M9 N5 N7	

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
63T1	Use 6AB8 Data.	
77	A1 B4 B6 C5 D10 E3 G2 I6 I10 J6 K6 K9 L1 M5 M10 N2 N9	Use WG-337A-6 Adaptor.
79	A1 B6 C4 D3 D10 F2 G5 I6 I10 J1 K6 K7 L1 M5 M10 N2 N9	Test P1 and P2. Use WG-337A-6 Adaptor.
81	A1 B4 G2 K2 L5 L6 L9 M3 M10 N2 N9	Use WG-337A-5 Adaptor. Reject if below 3.
89	A1 B6 C4 C5 D10 E3 G2 I6 I10 J8 K4 K5 L1 M5 M10 N2 N9	Use WG-337A-6 Adaptor.
90C1	A8 G1 G5 K5 L1 L6 L8 M5 M10 N5 N8	Use WG-324A Adaptor.
150B2	Use OA2 Data.	
350B	A2 B7 C8 D5 E4 G3 I6 I10 J8 K3 K4 L1 L6 L7 M3 M10 N1 N9	
407A	A1 A9 B5 C2 C8 D3 D7 F4 G6 I6 I7 J1 K6 L1 L6 L7 M5 M9 N5 N8	Test P1 and P2.
512AX	A5 B3 D4 G1 G2 J1 K10 L4 M5 M6 N4 N6	Use WG-338A Adaptor. Start red dot end at Pin 1. Calibrate WT-110A to 6. Reject if below 2. Depress Special Leakage/Gas Button in gas test.
1619	A2 B7 D5 E4 G3 J1 K6 K7 L1 L6 L8 M4 M6 N2 N6	
1625	A1 B7 C6 D4 E3 G10 I6 I10 J9 K6 L1 L6 L7 M2 M10 N4 N9	Use WG-337A-7 Adaptor.
1626	A2 B7 C8 D5 G3 I6 I10 J9 K5 L1 M2 M10 N3 N9	
5636	A3 B6 C2 C4 C8 D1 E7 G5 I8 I9 J1 K7 K8 L1 L6 L7 M5 M10 N2 N9	Use WG-339A Adaptor.
5755	A4 B5 C2 C7 D3 D6 F1 G8 J1 K9 K10 L1 M2 M10 N3 N9	Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
5840	A3 B6 C2 C4 C8 D1 E7 G5 I8 I9 J1 K6 L1 L6 L7 M5 M10 N2 N9	Use WG-339A Adaptor.
6029	A2 B4 D3 G1 J7 K6 L1 L6 L7 M2 M6 N1 N6	Use WG-338A Adaptor. Red dot at Pin 1.
6042	Use 1633 Card.	
6073	Use OA2 Card.	
6C74	Use OB2 Card.	
6082	A7 B8 C3 C6 D1 D4 F2 G5 J1 K1 L5 L6 L9 M1 M9 N5 N8	Test P1 and P2.
6085	A4 B5 B9 C3 C8 D2 D7 F6 G1 I6 I10 J5 K9 L1 L6 L7 M5 M10 N2 N9	Test P1 and P2.
6111	A3 B6 C4 C5 D2 D7 F1 G8 J1 K6 L1 L6 L7 M5 M10 N2 N9	Use WG-339A Adaptor. Test P1 and P2.
6112	A3 B6 C4 C5 D2 D7 F1 G8 J1 K2 L1 M5 M10 N2 N9	Use WG-339A Adaptor. Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
6137	Use 6SK7 Card.	
6216	A4 B5 C3 C8 D2 E7 G1 G6 I6 I10 J6 K5 K6 L1 L6 L8 M3 M10 N1 N9	
6354	Use OA2 Card.	
6485	Use 6AH6 Data.	
6582	Use 6AK5 Data.	

TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
6626	Use OA2 Card.	
6627	Use OB2 Card.	
6688	Use E180F Card.	
6853	Use 5Y3 Data.	
6900	Use 5687 Card.	
7036	Use 6BY6 Card.	
7044	A4 B5 C3 C6 D2 D7 F1 G9 I6 I10 J4 K6 K7 L1 L6 L8 M2 M10 N4 N9	Test P1 and P2.
7054	A4 B5 C1 C3 C9 D2 E8 G7 I7 I9 J1 K6 L1 L6 L8 M2 M10 N4 N9	
7055	A3 B4 C1 C5 C6 F2 G7 I6 I10 K7 L3 L6 L8 M1 M10 N3 N9	Test P1 and P2. Reject if below 4.
7056	A3 B4 C2 C7 D1 E6 G5 I6 I7 J1 K9 L1 L6 L8 M1 M10 N3 N9	
7057	A4 B5 B9 C3 C8 D2 D7 F1 G8 I7 I8 J1 K4 L1 L6 L7 M1 M10 N3 N9	Test P1 and P2. Use Special Leakage Test.
7058	A4 B5 C3 C8 D2 D7 F1 G6 I6 I10 J2 K8 L1 M1 M10 N3 N9	Depress Special Leakage/Gas Button in gas test. Test P1 and P2.
7059 Pentode Unit	A4 B5 C7 D2 E3 G6 I7 I10 J1 K6 L1 L6 L7 M1 M10 N3 N9	
7059 Triode Unit	A4 B5 C8 D9 G1 I7 I10 J1 K3 L1 L6 L7 M1 M10 N3 N9	
7061	A4 B5 C7 D3 D6 E1 E8 G9 I6 I10 J7 K6 K8 L1 L6 L7 M2 M10 N4 N9	
7105	A7 B8 C3 C6 D1 D4 F2 G5 J1 K1 L5 L6 L9 M2 M10 N4 N9	Test P1 and P2.
7119	A4 A5 B8 C3 C6 D2 D7 F9 G1 I6 I10 J4 K5 L1 L6 L8 M5 M10 N2 N9	Test P1 and P2.
7167	A3 B4 C2 C7 D1 E6 G5 I7 I9 J1 K1 L1 L6 L7 M1 M10 N3 N9	
7247 Triode Unit 1	A4 B5 C8 D7 G6 I6 I10 J2 K8 L1 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
7247 Triode Unit 2	A4 B5 C3 D2 G1 I6 I10 J5 K4 L1 M2 M10 N3 N9	
7258 Pentode Unit	A4 B5 C9 D8 E7 G6 I6 I7 J1 K4 L1 L6 L7 M2 M10 N4 N9	
7258 Triode Unit	A4 B5 C3 D2 G1 I6 I10 J6 K3 L1 M2 M10 N4 N9	
7355	A2 B7 C5 D6 E8 G3 I6 I10 J8 K3 K4 L1 L6 L7 M3 M10 N1 N9	
7360	A4 B5 C1 C8 C9 D3 E2 F6 G7 I7 I9 J1 K10 L1 M5 M10 N2 N9	Test P1 and P2. Reject if below 3. Balance between P1 and P2 must be good.
7370	A4 A5 B8 C3 C6 D2 D7 F1 G9 I6 I10 J4 K6 L1 L6 L8 M3 M9 N4 N8	Test P1 and P2.
7382	A3 B4 C2 D1 G7 I6 I10 J2 K8 L1 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
7408	Use 6V6 Card.	
7489	Use 12AU7 Card.	
7492	Use 12AT7 Card.	
7494	Use 12AX7 Card.	
7496	Use 6BA6 Card.	
7551	A4 B5 B7 C1 D2 E3 G6 I6 I10 J7 K5 L1 L6 L7 M2 M10 N4 N9	
7558	A4 B5 B7 C1 D2 E3 G6 I6 I10 J7 K5 L1 L6 L7 M3 M10 N1 N9	

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
7581	A2 B7 C8 D5 E4 G3 I6 I10 J7 K5 K7 L1 L6 L7 M3 M10 N1 N9	
7587	A1 A3 B5 C2 D6 E4 G10 I6 I8 J1 K4 K5 L1 L6 L7 M5 M10 N2 N9	Use Nuvistor Adaptor WG-340A.
7591	A2 B7 C5 D6 E4 E8 G3 I6 I10 J5 K2 L1 L6 L7 M3 M10 N1 N9	
7631	Use 6AL5 Card.	
7687	Use 7199 Card.	
7701	A4 B5 C1 C3 C8 D2 E7 E9 G6 I7 I9 J1 KI K2 L1 M1 M10 N3 N9	
7716 Triode Unit	A4 B5 B6 C1 D2 G3 I6 I10 J2 K3 L1 M1 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
7716 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I10 J1 K1 L1 L6 L7 M1 M10 N3 N9	
7721	A4 B5 B8 C1 C3 D2 E9 G7 I7 I10 J1 K3 L1 L6 L8 M5 M10 N2 N9	
7751	A2 B7 C8 D5 E4 G3 I6 I10 J10 K7 L1 L6 L8 M3 M10 N1 N9	
7861	A1 B5 B9 C2 C8 D3 D7 F4 G6 J1 K5 K6 L1 L6 L7 M2 M10 N3 N9	Test P1 and P2.
7898	A4 B5 C3 C8 D2 D7 F1 G6 J1 K6 L1 L6 L7 M2 M10 N4 N9	Test P1 and P2.
7905	A9 B1 B7 D2 E3 E8 G6 J6 K5 K6 L1 L6 L8 M5 M10 N2 N9	

TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
8056	A1 A3 B5 C2 D6 G4 I6 I9 J1 K4 L2 L6 L7 M5 M10 N2 N9	Use WG-340A Adaptor
8058	A3 B5 C2 C4 C6 D1 G10 I7 I10 J1 K1 L1 L6 L7 M5 M10 N2 N9	Use Nuvistor Adaptor WG-340A.
8102 Triode Unit	A4 B5 C7 C8 D9 G1 I6 I10 J2 K2 L1 L6 L7 M2 M10 N5 N9	
8102 Pentode Unit	A4 B5 C7 D2 E3 G6 I6 I10 J2 K2 L1 L6 L7 M2 M10 N5 N9	
8106	A4 B5 C2 C6 C9 D7 E3 E8 G1 I6 I10 J5 K1 K3 L1 L6 L7 M1 M10 N3 N9	
8236	Use 6DQ5 Data.	
8431	A4 B5 B9 C3 C8 D2 D7 F1 G6 I9 I10 J1 K1 L1 L6 L7 M2 M10 N3 N9	Test P1 and P2.
8445 Triode Unit	A4 B5 C8 D9 G1 I6 I9 J1 K1 L1 L6 L7 M4 M10 N2 N9	
8445 Pentode Unit	A4 B5 C7 D2 E3 G6 I6 I10 J2 K3 L1 L6 L7 M4 M10 N2 N9	
8446 Triode Unit	A4 B5 C3 D1 G2 I7 I9 J1 K1 L1 L6 L7 M4 M10 N2 N9	
8446 Pentode Unit	A4 B5 C8 D9 E7 G6 I7 I10 J1 K3 L1 L6 L7 M4 M10 N2 N9	
8447	Use 12BR7 Data.	
8448	Use 12BY7 Data.	
9006	A3 B4 C2 C7 G1 G5 K7 K8 L3 M5 M10 N2 N9	Reject if below 3.

7-PIN NUVISTOR ADAPTOR

A 7-pin Nuvistor adaptor can be constructed using a 7-pin Nuvistor socket and a standard 8-pin octal base. Connect the pins of the Nuvistor socket to the octal base as indicated below:

7-Pin Nuvistor Socket (Pin Number)	CONNECT TO	Octal Base (Pin Number)
1	———	1
2	———	3
4	———	7
6	———	5
7	———	6
10	———	4
12	———	2
metal case	———	8

Insert the adaptor into the octal socket of the WT-110A, and insert the Nuvistor into the adaptar. Card punch data for the 7-pin Nuvistor tubes is included in the basic tube list in this Supplement.

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CARD-PUNCH AND INTERCHANGEABILITY DATA FOR FOREIGN TUBE TYPES

TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
A2521	Use 6CR4 Card.	
B719	Use 6AQ8 Card.	
CK573AX	A2 B4 C3 G1 J9 K6 K7 L1 M2 M6 N1 N6	Red mark at Pin 1 end.
D2M9	Use 6AL5 Card.	
D3a	Use 7721 Card.	
DC90	Use 6C4 Card.	
DL193	Use 3V4 Card.	
DY86	Use 1S2 Card.	
E182CC	Use 5687 Card.	
E235L	Use 7751 Card.	
E80CC	Use 6085 Data.	
EBF35 Pentode Unit	A1 B8 C2 C5 C6 C7 D10 E4 G3 I6 I10 J4 K5 L1 M5 M10 N2 N9	
EBF35 Diode Unit	A1 B8 C2 C7 F5 G6 K7 K8 L3 M5 M10 N2 N9	Test P1 and P2. Reject if below 3.
EC83	Use 6CM Card.	
EC88	Use 6DL4 Data.	
ECC230	Use 6AS7 Card.	
ECC40	A1 B8 C4 C7 D3 D6 F2 G5 I6 I10 J4 K2 K3 L1 M5 M10 N2 N9	Test P1 and P2. Use Special Adaptor.
ECF80	Use 6BL8 Card.	
ECF86	Use 6HG8 Cards.	
ECL84	Use 6DX8 Card.	
ECL86	Use 6GW8 Card.	
EF42	A1 B3 B4 B8 C7 D6 E5 G2 J2 K2 K3 L1 M5 M10 N2 N9	Use Special Adaptor. Depress Special Leakage/Gas Button in gas test.
EF37A	A2 B5 B7 C8 D10 E4 G3 I6 I10 J4 K4 K5 L1 M5 M10 N2 N9	
EF97	Use 6ES6 Card.	
EF98	Use 6ET6 Card.	
EF183	Use 6EH7 Card.	
EF184	Use 6EJ7 Card.	
EF861	Use E180F Card.	
EF905	Use 6AK5 Card.	
EH90	Use 6CS6 Card.	
EL41	A1 B8 C3 C7 D6 E5 G2 I6 I10 J5 K1 K4 L1 L6 L7 M5 M10 N2 N9	Use Special Adaptor.
EL83	Use 6CK6 Card.	
EL84	Use 6BQ5 Card.	
EL500	Use 6CB5 Card.	
EL803	Use 6CK6 Card.	
ELL80	Use 6HU8 Data.	
EM80	Use 6BR5 Card.	
EM81	Use 6DA5 Card.	
EM87	Use 6HU6 Data.	
EQ80	Use 6BE7 Card.	
EY82	A4 B5 C3 G9 K6 K8 L4 L6 L10 M5 M10 N2 N9	Reject if below 3.
EY83	Use 6S2 Card.	
EY87	Use 6S2 Card.	
EY88	Use 6AL3 Card.	
HD51	Use OA2 Card.	
HD52	Use OB2 Card.	
HM34	Use 12CD7 Card.	
LN152	Use 6AB8 Card.	
LM152	Use 6AB8 Card.	
LZ319	Use 9A8 Card.	
N153	Use 15A6 Card.	
N154	Use 16A5 Card.	
N329	Use 16A5 Card.	
N709	Use 6BQ5 Card.	
PC86	Use 4CM4 Card.	
PCC89	Use 7FC7 Card.	
PCF80	Use 9A8 Card.	
PCF86	Use 7HG8 Cards.	
PLL80	Use 12HU8 Data.	
PM04	Use 6BA6 Card.	
PM05	Use 6AK5 Card.	
PY83	Use 17Z3 Card.	
PY86	Use 1S2 Card.	
QS150/40	Use OD3 Card.	
QS1207	Use OA2 Card.	
QS1208	Use OB2 Card.	
QV03-12	Use 5763 Card.	
R12A	Use 6X2 Card.	
SP6	Use 6AM6 Card.	
SU61	Use 6X2 Card.	
T2M05	Use 6J6 Card.	
U43	Use 6X2 Card.	
U78	Use 6X4 Card.	
U152	Use 19X3 Card.	
U153	Use 17Z3 Card.	
U154	Use 19Y3 Card.	
U709	Use 6CA4 Card.	
UAA91	Use 12AL5 Card.	
UABC80	Use 28AK8 Card.	
UB91	Use 12AL5 Card.	
UBC41	Use 14L7 Card.	
UBC81 Triode Unit	A4 B5 C3 D2 G1 I6 I10 J2 K6 K7 L1 M2 M10 N5 N9	Depress Special Leakage/Gas Button for gas test.
UBC81 Diode Unit	A4 B5 C3 F8 G6 K3 L4 M2 M10 N5 N9	Test P1 and P2. Reject if below 3.
UBF89	Use 19FL8 Card.	
UC92	Use 9AB4 Card.	
UCC85	Use 26AQ8 Card.	
UCH81	Use 19AJ8 Card.	
UCL80 Triode Unit	A4 B5 C8 D9 G1 I6 I10 J4 K5 L1 L6 L7 M4 M10 N2 N8	
UCL80 Pentode Unit	A4 B5 C7 D2 E3 G6 I6 I10 J2 K4 L1 L6 L7 M4 M10 N2 N8	
UF40	A1 B8 C4 C7 D5 E6 G2 J4 K7 K8 L1 M2 M10 N4 N9	Use Special Adaptor.
UF80	Use 19BX6 Card.	
UF85	Use 19BY7 Card.	
UM35	Use 19U5 Card.	
UM80	Use 19BR5 Card.	
UU12	Use 6CA4 Card.	
V2M70	Use 6X4 Card.	
V884	Use 6CQ6 Card.	
W77	Use 6CQ6 Card.	
W719	Use 6BY7 Card.	
WD709	Use 6N8 Card.	
X17	Use 1R5 Card.	
X719	Use 6AJ8 Card.	
Z77	Use 6AM6 Card.	
Z152	Use 6BX6 Card.	
ZD152	Use 6N8 Card.	
4R-HH8	Use 4KN8 Data.	
6R-HH8	Use 6KN8 Data.	

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Testing Novar (large 9-pin) Tubes, 10-Pin Tubes, and 12-Pin Integral All-Glass Base (Compactron) Tubes with the RCA WT-110A

The WT-110A *Automatic* Electron Tube Tester can be used to test the new Novar, 10-pin, and 12-pin integral-base tube-types. To test these tubes, a special adaptor must be constructed which contains the tube sockets and necessary switching arrangement. This adaptor is connected directly ta the WT-110A through the 9-pin socket and top-cap socket of the tester.

If desired, the adaptor can be constructed with only one or two of the three types of tube sockets. Follow the same wiring arrangement shown in the schematic for the connection of the individual sockets to the tester. The switch shown in the schematic is necessary only if the 12-pin integral-base socket is used.

MATERIAL REQUIRED

Quantity	Description
1	Novar (large 9-pin) socket, Cinch #149-19-10-038 or equivalent.
1	10-pin socket, Sylvania #7460-0035, Methode SG-640-10, or equivalent.
1	12-pin socket, Cinch #149-10-30-025 or equivalent.
1	9-pin plug, Vector P9D, or equivalent.
1	3" x 4" x 5" metal box, Premier AMC-1005, or equivalent.
1	8-pole, 5-position, non-shorting switch, Centralab PA-1027, or equivalent.
31	Ferrite Sleeves, RCA Replacement Parts Stock #209846. (Order from any RCA Electronic Instrument Distributor.)
4	#4-40 x ¼" machine screws.
4	#4-40 nuts.
2	#2-56 x ¼" machine screws.
2	#2-56 nuts.
2 ft.	10-wire conductor cable, #22, solid.
6 ft.	Insulated hookup wire, #22, solid.
1	Rubber insulating grommet, ¼" I.D.
1	Top-cap from discarded vacuum tube.

CONSTRUCTION

Refer to the parts layout shown in the photograph, Figure 1, and the wiring as shown in the schematic diagram, Figure 2.

It is important that the ferrite sleeves be placed over the ends of all wires that connect to the socket pins, as shown in the schematic diagram. Insulation must be removed from the ends of the wires so that the ferrite sleeves can be slipped over the bare wire close to the socket connection.

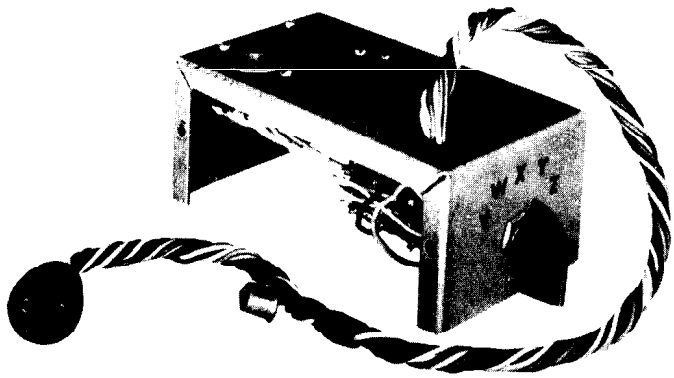

Figure 1

Note: The wires must be positioned so that contact is not made between adjacent sleeves. If these sleeves should touch each other, errors in measurement may occur.

Wiring Procedure:

Note: Use only rosin-core solder in the construction of this adaptor.

Connect the wires of the 10-wire cable from the top cap and pins 2 through 8 of the 9-pin plug to the switch lugs as indicated in the schematic, Figure 2. Use hookup wire between these connections and the pins of the 10-pin socket, then to the corresponding pins of the Novar socket. Be sure to install the ferrite sleeves on all connections to the tube sockets.

Connect the wires from pins 1 and 9 of the 9-pin plug to pins 1 and 12 respectively of the 12-pin socket. Connect hookup wire between these two pins and pins 1 and 9 of the Novar and 10-pin sockets as shown in Figure 2. (Use ferrite sleeves on all of these wires.)

Wire the switch and 12-pin socket as shown in the schematic diagram, again placing a ferrite sleeve on each wire at the connection to the socket.

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Continuity Check:

When the adaptor is completed, the switching circuit can be checked by connecting an ohmmeter between the pins of the 9-pin plug and the pins of the 12-pin socket. The following table shows the 9-pin plug and the 12-pin socket connections which should indicate continuity on each of the five switch positions. Continuity between pins not listed in the table indicates an error in wiring.

9-Pin Plug	Switch Position				
Pin #	V	W	X	Y	Z
1	1	1	1	1	1
2	2	2	2	3	4
3	3	3	3	4	5
4	4	4	4	5	6
5	5	5	5	6	7
6	6	6	8	7	8
7	7	7	9	8	9
8	8	8	10	9	10
9	12	12	12	12	12
Top Cap	11	9	11	10	11

OPERATION

To use the adaptor, insert the 9-pin plug into the 9-pin socket of the WT-110A, and connect the top cap to the top-cap socket of the tester.

Before inserting any tube into the 12-pin socket, the switch on the adaptor must be in the position indicated in the testing data (V, W, X, Y, or Z). Failure to place the switch in the proper position may burn out the tube or damage the tester.

CAUTION: Do not pull the Power Lever of the tester forward to the "Power On" position until the adaptor has been completely connected.

When testing Novar (large 9-pin) tubes or 10-pin tubes, no switching of the adaptor is necessary because the switch does not affect the circuit connected to these tube sockets.

When the adaptor is connected to the WT-110A as described above, the tube to be tested is inserted in the appropriate socket of the adaptor, and the same testing procedure is used as with conventional tube-types.

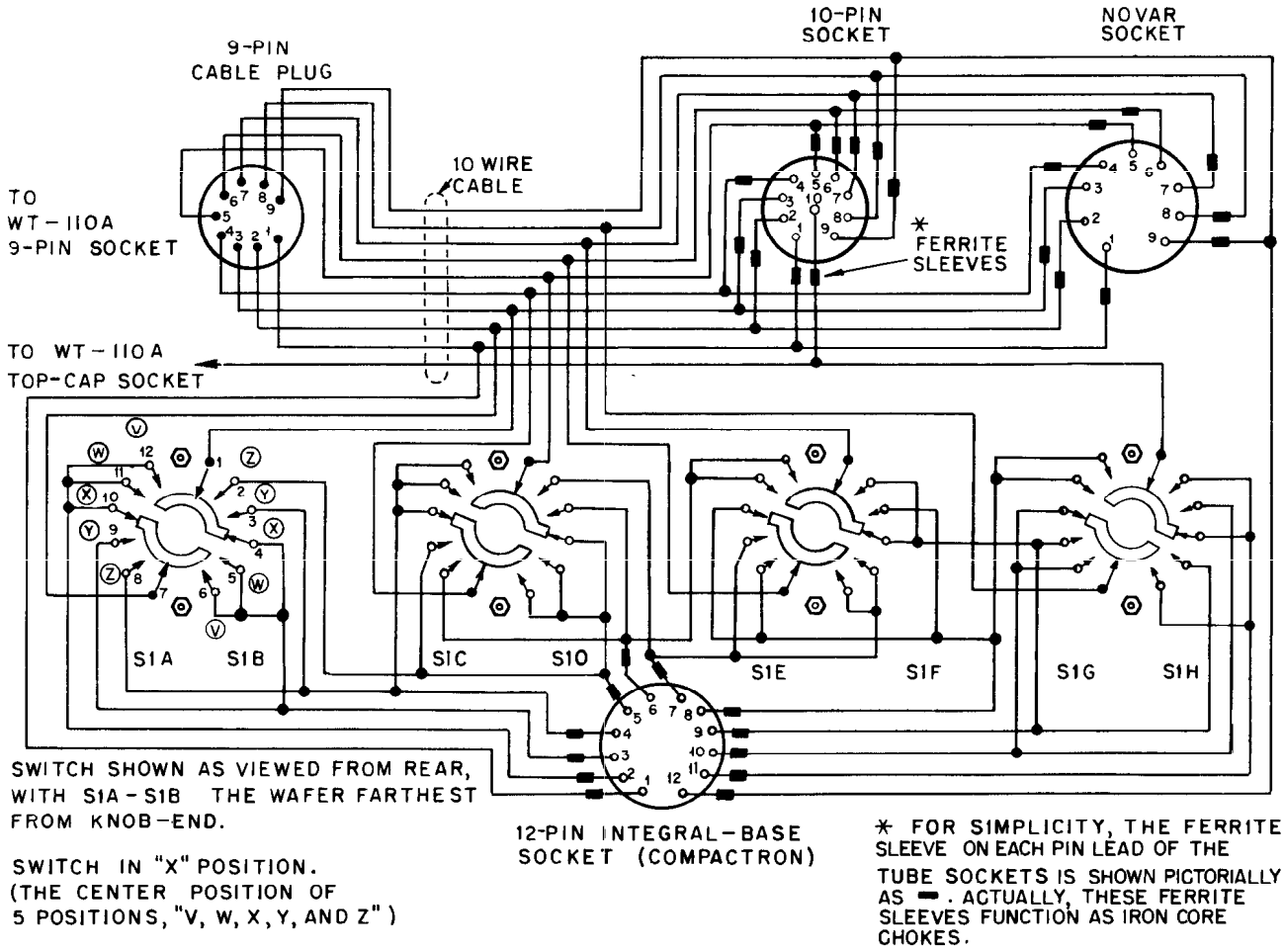

Figure 2

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TESTING INFORMATION FOR
9-PIN NOVAR, 10-PIN, AND 12-PIN TUBE-TYPES
(Using Adaptor Described on Pages 8 and 9)

TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
1AD2	A1 B9 G10 K9 L5 M2 M6 N1 N6	Use Compactron Adaptor on any position. Connect cap lead of tester to tube cap rather than to Adaptor. Reject if below 1.0.
1AJ2	A1 B9 G10 K7 K9 L5 M2 M6 N1 N6	Use Compactron Adaptor on Position Y. Connect cap lead of tester to tube cap rather than to Adaptor. Reject if below 3.
2AH2	A9 B1 G10 K5 K6 L5 M3 M6 N2 N6	Use Compactron Adaptor on Position X. Connect cap lead of tester to tube cap rather than to Adaptor. Reject if below 3.
2AS2	A9 B1 G10 K6 L5 M3 M6 N2 N6	Use Compactron Adaptor on any position. Connect cap lead to cap of tube. Reject if below 2.
3AT2	A9 B1 G10 K7 L5 M4 M6 N2 N6	Use Compactron Adaptor on any position. Connect cap lead to cap of tube. Reject if below 3.
5AZ3	A1 B9 F3 G7 K1 L5 L6 L10 M5 M10 N2 N9	Test P1 and P2. Reject if below 4. Use Compactron Adaptor on Position V.
5BC3	A1 B3 F5 G9 K1 L5 L6 L10 M4 M10 N2 N9	Use Novar Adaptor. Test P1 and P2.
6AF11 Triode Unit 1	A1 B9 C5 D6 G8 I6 I10 J2 K6 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position W. Depress Special Leakage/Gas Button on gas test.
6AF11 Triode Unit 2	A1 B9 C7 D3 G4 I7 I10 J1 K7 K8 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position W.
6AF11 Pentode Unit	A1 B9 C7 D10 E8 G2 I7 I10 J1 K6 K7 L1 L6 L8 M3 M10 N1 N9	Use Compactron Adaptor on Position X.
6AG11 Diode Unit	A1 B9 C2 C10 F3 G8 I6 I10 K2 L3 M5 M10 N2 N9	Use Compactron Adaptor on Position X. Test P1 and P2. Reject if below 2.
6AG11 Triode Unit	A1 B9 C4 C10 D5 D8 F6 G7 I6 I10 J2 K5 L1 L6 L7 M5 M10 N2 N9	Use Compactron Adaptor on Position W. Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
6AL11 Pentode Unit 1	A1 B3 B9 C7 D6 E8 G10 I6 I10 J5 K4 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position Z.
6AL11 Pentode Unit 2	A1 B4 B5 B9 C2 D3 E7 G6 J3 K9 L1 M3 M10 N1 N9	Use Compactron Adaptor on Position W. Reject if below 3.
6AR11 Pentode Unit 1	A1 B5 B9 C10 D8 E7 G6 I7 I10 J1 K3 K4 L1 L6 L7 M5 M10 N2 N9	Use Compactron Adaptor on Position Z. Depress Special Leakage/Gas Button in gas test.
6AR11 Pentode Unit 2	A1 B4 B9 C6 D5 E3 G2 I7 I10 J1 K3 K4 L1 L6 L7 M5 M10 N2 N9	Use Compactron Adaptor on Position V. Depress Special Leakage/Gas Button in gas test.
6AS11 Triode Unit	A1 B2 B9 B10 C5 C7 D3 D6 F4 G8 I7 I9 J1 K5 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position W. Test P1 and P2. Reject if P2 is below 2.
6AS11 Pentode Unit	A1 B9 C7 D10 E4 E8 G2 I7 I10 J1 K2 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position X.
6AV11 Triode Unit 1 and 3	A1 B6 B9 C3 C4 D7 D10 F2 G8 I6 I10 J5 K9 L1 L6 L7 M5 M10 N2 N9	Use Compactron Adaptor on Position X. Test P1 and P2.
6AV11 Triode Unit 2	A1 B9 C6 D7 G5 I6 I10 J5 K9 L1 L6 L7 M5 M10 N2 N9	Usa Compactron Adaptor on Position V. Test P1 Only.
6AX3	A1 B9 C6 G3 G10 I6 I10 K1 L4 L6 L9 M4 M10 N2 N9	Use Compactron Adaptor on Position Y. Reject if below 4.
6AY3	A4 B5 C9 G2 G7 I6 I10 K7 L4 L6 L10 M4 M10 N2 N9	Use Novar Adaptor. Reject if below 4.
6AY11 Triode Units	A1 B9 C4 C10 D5 D8 F6 G7 I6 I10 J2 K6 K7 L1 M5 M10 N2 N9	Use Compactron Adaptor on Position W. Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
6AY11 Diode Units	A1 B9 C2 C10 F3 G8 I6 I10 K3 L3 L6 L7 M5 M10 N2 N9	Use Compactron Adaptor on Position X. Test P1 and P2. Reject if below 2.
6B10 Triode Units	A1 B9 C2 C7 D3 D5 F4 G6 I6 I10 J5 K9 L1 L6 L7 M5 M10 N2 N9	Use Compactron Adaptor on Position W. Test P1 and P2.
6B10 Diode Units	A1 B9 C7 F6 G8 I6 I10 K4 K5 L3 L6 L7 M5 M10 N2 N9	Use Compactron Adaptor on Position Z. Test P1 and P2. Reject if below 3.
6BA3	A4 B5 C9 G2 G7 I6 I10 K1 L4 L6 L9 M4 M10 N2 N9	Use Novar Adaptor. Reject if below 3.
68A11 Pentode Unit	A1 B5 B7 B9 B10 C8 D4 E3 F2 G6 I6 I10 J2 K8 K9 L1 M5 M10 N2 N9	Use Compactron Adaptor on Position V. Test P1 and P2. Reject if below 3.
68A11 Triode Unit	A1 B9 C8 D7 G10 I6 I10 J7 K7 L1 M5 M10 N2 N9	Use Compactron Adaptor on Position X.

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
6BD11 Pentode Unit	A1 B9 C7 D10 E8 G2 I7 I9 J1 K1 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position X.
6BD11 Triode Unit 1	A1 B9 C4 D5 G7 I8 I10 J1 K5 K6 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position Y.
6BD11 Triode Unit 2	A1 B9 C6 D2 G3 I8 I10 J1 K6 K8 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position Y.
6BE3	A1 B9 C6 G3 G10 I6 I10 K4 L4 L6 L10 M4 M10 N2 N9	Use Compactron Adaptor on Position Y. Reject if below 4.
6BF11 Pentode Unit 1	A1 B3 B9 C7 D6 E8 G10 I6 I10 J8 K7 K8 L1 L6 L8 M3 M10 N1 N9	Use Compactron Adaptor on Position Z.
6BF11 Pentode Unit 2	A1 B4 B5 B9 C2 D3 E7 G6 J3 K9 L1 M3 M10 N1 N9	Use Compactron Adaptor on Position W. Reject if below 3.
6BH3	A4 B5 C9 G2 G7 I6 I10 K7 L4 L6 L10 M4 M10 N2 N9	Use Novar Adaptor. Reject if below 4.
6BJ3	A1 B9 C6 G3 G10 I6 I10 K5 L4 L6 L10 M3 M10 N1 N9	Use Compactron Adaptor on Position Y. Reject if below 3.
6BS3	A4 B5 C9 G2 G7 I6 I10 K1 L3 L6 L7 M4 M10 N2 N9	Use Novar Adaptor. Reject if below 3.
*6C9	A4 B5 C3 C10 D2 D7 D9 F6 G8 H1 I6 I10 J2 K7 L1 L6 L7 M5 M10 N2 N9	Use 10 Pin Adaptor. Test P1, P2 and P3.
6C10 Triode Units 1 and 2	A1 B7 B9 C3 C5 D6 D8 F4 G10 I6 I10 J2 K8 L1 M3 M10 N1 N9	Use Compactron Adaptor on Position Y. Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
6C10 Triode Unit 3	A1 B6 B9 C3 D10 G2 I6 I10 J2 K8 L1 M3 M10 N1 N9	Use Compactron Adaptor on Position X. Test P1 only. Depress Special Leakage/Gas Button in gas test.
6D10 Triode Units 1 and 2	A1 B7 B9 C3 C5 D6 D8 F4 G10 I6 I10 J2 K7 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position Y. Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
6D10 Triode Unit 3	A1 B6 B9 C3 D10 G2 I6 I10 J2 K7 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position X. Test P1 only. Depress Special Leakage/Gas Button in gas test.
6DW4	A4 B5 C9 G2 G7 I6 I10 K4 L4 L6 L10 M4 M10 N2 N9	Use Novar Adaptor.
6FJ7 Triode Unit 1	A1 B9 C7 D8 G10 I6 I10 J5 K4 K5 L1 M3 M10 N1 N9	Use Compactron Adaptor on Position Z.
6FJ7 Triode Unit 2	A1 B9 C7 D3 G5 I6 I10 J6 K5 K6 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position W.
6FM7 Triode Unit 1	A1 B9 C7 D8 G10 I6 I10 J2 K5 K6 L1 M3 M10 N1 N9	Use Compactron Adaptor on Position Z. Depress Special Leakage/Gas Button in gas test.
6FM7 Triode Unit 2	A1 B9 C6 D2 D7 G4 I6 I10 J10 K4 K5 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position Y.
6FY7 Triode Unit 1	A1 B9 C7 D8 G10 I6 I10 J2 K7 L1 M3 M10 N1 N9	Use Compactron Adaptor on Position Z. Depress Special Leakage/Gas Button in gas test.

* Indicates corrected punch data. Discard any punch information published previously on this tube-type.

TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
6FY7 Triode Unit 2	A1 B9 C6 D2 G4 I6 I10 J10 K4 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position Y.
6G11 Pentode Unit 1	A1 B3 B9 C7 D6 E8 G10 I6 I10 J9 K3 K4 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position Z.
6G11 Pentode Unit 2	A1 B5 B9 C2 C4 D3 E7 G6 J1 K8 L1 M3 M10 N1 N9	Use Compactron Adaptor on Position V.
6GA7 Diode Unit	A1 B9 C6 G10 I6 I10 K1 L4 L6 L9 M4 M10 N2 N9	Use Compactron Adaptor on Position Z. Reject if below 3.
6GA7 Pentode Unit	A1 B9 C5 D4 E2 E3 G7 I7 I10 J10 K5 L1 L6 L7 M4 M10 N2 N9	Use Compactron Adaptor on Position V.
6GB5	A4 B5 C3 C8 D1 D2 E6 E7 G10 I6 I10 J10 K6 K7 L1 L6 L8 M4 M10 N2 N9	Use Novar Adaptor.
6GE5	A1 B9 C4 D3 D10 E2 G7 I6 I10 J10 K3 K5 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position V.
6GF5	A1 B9 C4 D3 E2 G7 I6 I10 J10 K3 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position W.
6GF7 Triode Unit 1	A4 B5 C1 D9 G8 I6 I10 J2 K6 K7 L1 M3 M10 N1 N9	Use Novar Adaptor. Depress Special Leakage/Gas Button in gas test.
6GF7 Triode Unit 2	A4 B5 C3 D2 G6 I6 I10 J10 K4 L1 L6 L7 M3 M10 N1 N9	Use Novar Adaptor.
6GJ5	A4 B5 C3 D2 D6 E1 E7 G10 I7 I10 J10 K9 L1 L6 L8 M4 M10 N2 N9	Use Novar Adaptor.
6GT5	A4 B5 C3 D2 D6 E1 E7 G9 I6 I10 J10 K3 L1 L6 L7 M4 M10 N2 N9	Use Novar Adaptor.
6GV5	A1 B9 C4 D5 E3 E7 G10 I8 I10 J10 K5 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position W. Connect cap lead to cap of tube.
6GY5	A1 B9 C2 C8 D3 D7 E5 G10 I6 I10 J10 K7 L1 L6 L8 M4 M10 N2 N9	Use Compactron Adaptor on Position Z. Connect cap lead to tube cap.
6HB5	A1 B9 C4 D3 E2 G7 I8 I9 J10 K3 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position W.
6HE5	A1 B9 C4 C10 D2 E3 G6 I6 I10 J8 K6 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position V.
6HF5	A1 B9 C4 D5 E3 E6 E8 G10 I8 I10 J10 K3 K4 L1 L6 L7 M4 M10 N2 N9	Use Compactron Adaptor on Position W. Connect cap lead to cap of tube.
6J10 Pentode Unit	A1 B9 C3 D10 E2 G7 I6 I10 J6 K9 L1 L6 L8 M3 M10 N1 N9	Use Compactron Adaptor on Position X.
6J10 Discriminator Unit	A1 B9 C8 D5 D7 E6 G4 I6 I10 J2 K9 L1 M3 M10 N1 N9	Use Compactron Adaptor on Position W. Reject if below 3.
6J11 Pentode Unit 1	A1 B2 B8 B9 C6 D10 E5 G7 I7 I10 J1 K1 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position Z. Depress Special Leakage/Gas Button in gas test.
6J11 Pentode Unit 2	A1 B4 B9 C6 D5 E2 G3 I7 I10 J1 K1 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position V. Depress Special Leakage/Gas Button in gas test.
6JB6	A4 B5 C3 C8 D2 E1 E7 G10 I7 I10 J10 K9 L1 L6 L8 M4 M10 N2 N9	Use Novar Adaptor.

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
6JE6	A4 B5 C3 D2 E7 G10 I6 I8 J10 K4 L1 L6 L7 M4 M10 N2 N9	Use Novar Adaptor.
6K11 Triode Unit 1	A1 B7 B9 C3 D8 G10 I6 I10 J6 K5 K6 L1 M3 M10 N1 N9	Use Compactron Adaptor on Position Y.
6K11 Triode Units 2 and 3	A1 B8 B9 C3 C6 D7 D10 F2 G5 I6 I10 J2 K7 K9 L1 M3 M10 N1 N9	Use Compactron Adaptor on Position V. Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
6M11 Triode Units	A1 B9 C4 C10 D5 D8 F6 G7 I6 I10 J2 K5 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position W. Test P1 and P2.
6M11 Pentode Units	A1 B9 C8 D2 E3 G10 I7 I10 J1 K1 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position X.
6Q11 Triode Unit 1	A1 B6 B9 C2 D7 G8 I6 I10 J2 K2 K3 L1 M5 M10 N2 N9	Use Compactron Adaptor on Position Z.
6Q11 Triode Units 2, 3	A1 B8 B9 C3 C6 D7 D10 F2 G5 I6 I10 J2 K7 K9 L1 M5 M10 N2 N9	Use Compactron Adaptor on Position V. Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
8B10 Triode Unit	A1 B9 C2 C7 D3 D5 F4 G6 I6 I10 J5 K9 L1 L6 L7 M5 M10 N3 N9	Use Compactron Adaptor on Position W. Test P1 and P2.
8B10 Diode Unit	A1 B9 C7 F6 G8 I6 I10 K4 K5 L3 L6 L7 M5 M10 N3 N9	Use Compactron Adaptor on Position Z. Test P1 and P2. Reject if below 3.
10AL11 Pentode Unit 1	A1 B3 B9 C7 D6 E8 G10 I6 I10 J5 K4 L1 L6 L7 M5 M10 N5 N9	Use Compactron Adaptor on Position Z.
10AL11 Pentode Unit 2	A1 B4 B5 B9 C2 D3 E7 G6 J3 K9 L1 M5 M10 N5 N9	Use Compactron Adaptor on Position W. Reject if below 3.
10GF7 Triode Unit 1	A4 B5 C1 D9 G8 I6 I10 J2 K6 K7 L1 M5 M10 N5 N9	Use Novar Adaptor. Depress Special Leakage/Gas Button in gas test.
10GF7 Triode Unit 2	A4 B5 C3 D2 G6 I6 I10 J10 K4 L1 L6 L7 M5 M10 N5 N9	
11AR11 Pentode Unit 1	A1 B5 B9 C10 D8 E7 G6 I7 I10 J1 K3 K4 L1 L6 L7 M1 M10 N2 N9	Use Compactron Adaptor on Position Z. Depress Special Leakage/Gas Button in gas test.
11AR11 Pentode Unit 2	A1 B4 B9 C6 D5 E3 G2 I7 I10 J1 K3 K4 L1 L6 L7 M1 M10 N2 N9	Use Compactron Adaptor on Position V. Depress Special Leakage/Gas Button in gas test.
12AL11 Pentode Unit 1	A1 B3 B9 C7 D6 E8 G10 I6 I10 J5 K4 L1 L6 L7 M2 M10 N4 N9	Use Compactron Adaptor on Position Z.
12AL11 Pentode Unit 2	A1 B4 B5 B9 C2 D3 E7 G6 J3 K9 L1 M2 M10 N4 N9	Use Compactron Adaptor on Position W. Reject if below 3.
12AX3	A1 B9 C6 G3 G10 I6 I10 K1 L4 L6 L9 M2 M10 N4 N9	Use Compactron Adaptor on Position Y. Reject if below 4.
12AY3	A4 B5 C9 G2 G7 I6 I10 K7 L4 L6 L10 M2 M10 N4 N9	Use Novar Adaptor. Reject if below 4.
12BE3	A1 B9 C6 G3 G10 I6 I10 K4 L4 L6 L10 M2 M10 N4 N9	Use Compactron Adaptor on Position Y. Reject if below 4.
12BS3	A4 B5 C9 G2 G7 I6 I10 K1 L3 L6 L7 M2 M10 N4 N9	Use Novar Adaptor. Reject if below 3.

TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
12G11 Pentode Unit 1	A1 B3 B9 C7 D6 E8 G10 I6 I10 J9 K3 K4 L1 L6 L7 M2 M10 N4 N9	Use Compactron Adaptor on Position Z.
12G11 Pentode Unit 2	A1 B5 B9 C2 C4 D3 E7 G6 J1 K8 L1 M2 M10 N4 N9	Use Compactron Adaptor on Position V.
12GE5	A1 B9 C4 D3 D10 E2 G7 I6 I10 J10 K3 K5 L1 L6 L7 M2 M10 N4 N9	Use Compactron Adaptor on Position V.
12GJ5	A4 B5 C3 D2 D6 E1 E7 G10 I7 I10 J10 K9 L1 L6 L8 M2 M10 N3 N9	Use Novar Adaptor.
12GT5	A4 B5 C3 D2 D6 E1 E7 G9 I6 I10 J10 K3 L1 L6 L7 M2 M10 N4 N9	Use Novar Adaptor.
12JB6	A4 B5 C3 C8 D2 E1 E7 G10 I7 I10 J10 K9 L1 L6 L8 M2 M10 N3 N9	Use Novar Adaptor.
13FM7 Triode Unit 1	A1 B9 C7 D8 G10 I6 I10 J2 K5 K6 L1 M1 M10 N3 N9	Use Compactron Adaptor on Position Z. Depress Special Leakage/Gas Button in gas test.
13FM7 Triode Unit 2	A1 B9 C6 D2 D7 G4 I6 I10 J10 K4 K5 L1 L6 L7 M1 M10 N3 N9	Use Compactron Adaptor on Position Y.
13GF7 Triode Unit 1	A4 B5 C1 D9 G8 I6 I10 J2 K6 K7 L1 M2 M10 N5 N9	Use Novar Adaptor. Depress Special Leakage/Gas Button in gas test.
13GF7 Triode Unit 2	A4 B5 C3 D2 G6 I6 I10 J10 K4 L1 L6 L7 M2 M10 N5 N9	
15AF11 Pentode Unit	A1 B9 C7 D10 E8 G2 I7 I10 J1 K6 K7 L1 L6 L8 M1 M10 N5 N9	Use Compactron Adaptor on Position X.
15AF11 Triode Unit 1	A1 B9 C5 D6 G8 I6 I10 J2 K6 L1 L6 L7 M1 M10 N5 N9	Use Compactron Adaptor on Position W. Depress Special Leakage/Gas Button in gas test.
15AF11 Triode Unit 2	A1 B9 C7 D3 G4 I7 I10 J1 K7 K8 L1 L6 L7 M1 M10 N5 N9	Use Compactron Adaptor on Position W.
15BD11 Pentode Unit	A1 B9 C7 D10 E8 G2 I7 I9 J1 K1 L1 L6 L7 M1 M10 N5 N9	Use Compactron Adaptor on Position X.
15BD11 Triode Unit 1	A1 B9 C4 D5 G7 I8 I10 J1 K5 K6 L1 L6 L7 M1 M10 N5 N9	Use Compactron Adaptor on Position Y.
15BD11 Triode Unit 2	A1 B9 C6 D2 G3 I8 I10 J1 K6 K8 L1 L6 L7 M1 M10 N5 N9	Use Compactron Adaptor on Position Y.
15FM7 Triode Unit 1	A1 B9 C7 D8 G10 I6 I10 J2 K5 K6 L1 M5 M9 N1 N8	Use Compactron Adaptor on Position Z. Depress Special Leakage/Gas Button in gas test.
15FM7 Triode Unit 2	A1 B9 C6 D2 D7 G4 I6 I10 J10 K4 K5 L1 L6 L7 M5 M9 N1 N8	Use Compactron Adaptor on Position Y.
15FY7 Triode Unit 1	A1 B9 C7 D8 G10 I6 I10 J2 K7 L1 M5 M9 N1 N8	Use Compactron Adaptor on Position Z. Depress Special Leakage/Gas Button in gas test.
15FY7 Triode Unit 2	A1 B9 C6 D2 G4 I6 I10 J10 K4 L1 L6 L7 M5 M9 N1 N8	Use Compactron Adaptor on Position Y.
15KY8 Pentode Unit	A4 B5 C3 D2 E7 G6 I6 I10 J9 K1 K2 L1 L6 L7 M5 M9 N1 N8	Use Novar Adaptor.
15KY8 Triode Unit	A4 B5 C1 D9 G8 I6 I10 J2 K8 L1 M5 M9 N1 N8	Depress Special Leakage/Gas Button in gas test.

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
16GY5	A1 B9 C2 C8 D3 D7 E5 G10 I6 I10 J10 K7 L1 L6 L8 M5 M9 N2 N8	Use Compactron Adaptor on Position Z. Connect cap lead to tube cap.
17AX3	A1 B9 C6 G3 G10 I6 I10 K1 L4 L6 L9 M3 M9 N2 N8	Use Compactron Adaptor on Position Y. Reject if below 4.
17AY3	A4 B5 C9 G2 G7 I6 I10 K7 L4 L6 L10 M4 M9 N2 N8	Use Novar Adaptor. Reject if below 4.
17BE3	A1 B9 C6 G3 G10 I6 I10 K4 L4 L6 L10 M3 M9 N2 N8	Use Compactron Adaptor on Position Y. Reject if below 4.
17BF11 Pentode Unit 1	A1 B3 B9 C7 D6 E8 G10 I6 I10 J8 K7 K8 L1 L6 L8 M3 M9 N2 N8	Use Compactron Adaptor on Position Z.
17BF11 Pentode Unit 2	A1 B4 B5 B9 C2 D3 E7 G6 J3 K9 L1 M3 M9 N2 N8	Use Compactron Adaptor on Position W. Reject if below 3.
17BH3	A4 B5 C9 G2 G7 I6 I10 K7 L4 L6 L10 M3 M9 N2 N8	Use Novar Adaptor. Reject if below 4.
17BS3	A4 B5 C9 G2 G7 I6 I10 K1 L3 L6 L7 M3 M9 N2 N8	Use Novar Adaptor. Reject if below 3.
17C9	A4 B5 C6 C10 D1 D7 E2 E8 F3 G9 I6 I10 J5 K6 L1 L6 L7 M4 M9 N2 N8	Use 10-pin Adaptor in any position. Test P1 and P2.
17GE5	A1 B9 C4 D3 D10 E2 G7 I6 I10 J10 K3 K5 L1 L6 L7 M3 M9 N2 N8	Use Compactron Adaptor on Position V.
17GJ5	A4 B5 C3 D2 D6 E1 E7 G10 I7 I10 J10 K9 L1 L6 L8 M3 M9 N2 N8	Use Novar Adaptor.
17GT5	A4 B5 C3 D2 D6 E1 E7 G9 I6 I10 J10 K3 L1 L6 L7 M3 M9 N2 N8	Use Novar Adaptor.
17GV5	A1 B9 C4 D5 E3 E7 G10 I8 I10 J10 K5 L1 L6 L7 M4 M9 N2 N8	Use Compactron Adaptor on Position W. Connect cap lead to cap of tube.
17JB6	A4 B5 C3 C8 D2 E1 E7 G10 I7 I10 J10 K9 L1 L6 L8 M3 M9 N2 N8	Use Novar Adaptor.
17JZ8 Triode Unit	A1 B9 C10 D8 G2 I6 I10 J6 K4 L1 M4 M9 N2 N8	Use Compactron Adaptor on Position X.
17JZ8 Pentode Unit	A1 B9 C10 D6 D7 E8 G4 I6 I10 J9 K2 K3 L1 L6 L7 M4 M9 N2 N8	Use Compactron Adaptor on Position W.
21GY5	A1 B9 C4 C8 D5 D7 E3 G10 J10 K9 L1 L6 L8 M2 M9 N3 N8	Use Compactron Adaptor on Position X. Connect cap lead of tester to tube cap rather than to adaptor.
21HB5	A1 B9 C4 D3 E2 G7 I8 I9 J10 K3 L1 L6 L7 M2 M9 N3 N8	Use Compactron Adaptor on Position W.
22BH3	A4 B5 C9 G2 G7 I6 I10 K7 L4 L6 L10 M2 M9 N3 N8	Use Novar Adaptor. Reject if below 4.
22JG6	A4 B5 C3 C6 D2 E1 E7 G9 I8 I10 J10 K8 L1 L6 L8 M2 M9 N3 N8	Use Novar Adaptor.
27GB5	A4 B5 C3 C8 D1 D2 E6 E7 G10 I6 I10 J10 K6 K7 L1 L6 L8 M3 M10 N2 N8	Use Novar Adaptor.
28GB5	A4 B5 C3 C8 D1 D2 E6 E7 G10 I6 I10 J10 K6 K7 L1 L6 L8 M4 M10 N3 N8	Use Novar Adaptor.
30AG11 Diode Unit	A1 B9 C2 C10 F3 G8 I6 I10 K2 L3 M5 M10 N5 N8	Use Compactron Adaptor on Position X. Test P1 and P2. Reject if below 2.
30AG11 Triode Unit	A1 B9 C4 C10 D5 D8 F6 G7 I6 I10 J2 K5 L1 L6 L7 M5 M10 N5 N8	Use Compactron Adaptor on Position W. Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
7868	A4 B5 C3 D2 D6 E1 E7 G9 I6 I10 J5 K1 K2 L1 L6 L7 M4 M10 N2 N9	Use Novar Adaptor. Reject if below 4.
7984	A1 B9 C5 C7 C8 D10 E6 G2 G3 G4 I6 I10 J9 K7 L1 L6 L8 M2 M10 N5 N9	Use Compactron Adaptor on Position Y.

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SUPPLEMENT TO

CARD PUNCH DATA BOOKLET FOR THE RCA WT-110A *AUTOMATIC* ELECTRON TUBE TESTER

INCLUDES SEPARATE LIST OF DATA FOR TESTING THE NOVAR, COMPACTRON, AND 10-PIN TUBE TYPES (SEE PAGE 13).

This card punch data is provided as an addition to the Card Punch Data Booklet 1CE-234, dated January, 1961, which is available through RCA Electronic Instrument Distributors. This Supplement replaces all earlier Supplements, and contains the latest punching information available as of the date of publication.

CORRECTED PUNCHING DATA

In some copies of the Card Punch Data Booklet, the punching data for the following tube-types is in error. The data in the Booklet should be corrected to agree with the punching information shown below.

TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
3BZ6	A3 B4 B7 C2 D1 E6 G5 I7 I10 J1 K3 K4 L1 L6 L7 M2 M6 N4 N6	
3DG4	A1 B3 F5 G7 K2 K3 L4 L6 L10 M4 M6 N1 N6	Test P1 and P2. Reject if below 4.
4BZ6	A3 B4 C2 C7 D1 E6 G5 I7 I10 J1 K5 K6 L1 L6 L7 M1 M6 N4 N6	
6AK8 Triode Unit	A4 B5 C7 D8 G9 J2 K7 K8 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6AK8 Diode Unit 1	A4 B5 C3 C7 G6 I6 I10 K8 L3 M5 M10 N2 N9	Test P1 only. Reject if below 1.
6AK8 Diode Unit 2	A4 B5 C3 C7 F2 H1 I6 I10 K7 L3 L6 L8 M5 M10 N2 N9	Test P2 and P3 only. Reject if below 3.
6AU7	A4 B5 C3 C8 D2 D7 F1 G6 I6 I10 J5 K4 L1 M5 M10 N2 N9	Test P1 and P2.
6BZ6	A3 B4 C2 C7 D1 E6 G5 I7 I10 J1 K5 K6 L1 L6 L7 M5 M10 N2 N9	
6ET6	Correct F6 to read E6	
6F6	Add L1 to Data.	
7AU7	A4 B5 C3 C8 D2 D7 F1 G6 I6 I10 J5 K4 L1 M4 M10 N2 N9	Test P1 and P2.
8CS7	Add M5 hole to Triode Unit 2 Data	
12AE6A Triode Unit	A3 B4 C2 D1 G7 I6 I10 J1 K6 K8 L2 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test. For 12AE6 without suffix "A", reject if below 3.5.

TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
12AU7	A4 B5 C3 C8 D2 D7 F1 G6 I6 I10 J5 K4 L1 M2 M10 N3 N9	Test P1 and P2.
12BZ6	A3 B4 C2 C7 D1 E6 G5 I7 I10 J1 K5 K6 L1 L6 L7 M2 M10 N4 N9	
12FX8	Correct Heptode Data—Change B4 to read B5	
21A6	Change 21A8/PL81 data to read 21A6/PL81. Remove 21A8/PL81 heading	
32ET5	A3 B4 C1 D2 E6 G7 I6 I10 J9 K4 L1 L6 L7 M2 M10 N3 N8	
35EH5	A3 B4 C1 D2 E6 G7 I7 I10 J1 K6 L1 L6 L8 M1 M10 N5 N8	
50FY8 Triode Unit	A4 B5 C8 D1 G9 J2 K5 L1 M5 M7 N5 N6	Depress Special Leakage/Gas Button in gas test.
50FY8 Pentode Unit	A4 B5 C2 D3 E7 G6 I8 I10 J1 K2 L1 L6 L7 M5 M7 N5 N6	
5886	A3 B4 D6 E2 G1 J6 K10 L2 M2 M6 N1 N6	Use WG-338A Adaptor. Start red dot end at Pin 1. Normal GM = 1.4.
6354	A2 G1 K7 L1 L6 L9 M5 M7 N5 N6	
DF96	Correct listing to read, Use 1AJ4 Card.	

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NEW PUNCHING INFORMATION

TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
1A4	A1 B4 D10 E3 G2 J7 K3 L1 M3 M6 N2 N6	Use WG-337A-4 Adaptor.
1AU2	A4 B5 G9 K9 L5 M2 M6 N1 N6	Reject if below 2.
1AU3	A7 B2 G10 K10 L5 M1 M6 N2 N6	Reject if below 3.
1B4	A1 B4 D10 E3 G2 J10 K9 L1 M3 M6 N2 N6	Use WG-337A-4 Adaptor.
1B5/25S Triode Unit	A1 B6 D5 G2 J6 K8 L1 M3 M6 N2 N6	Use WG-337A-6 Adaptor.
1B5/25S Diode Unit	A1 B6 F3 G4 K3 L4 M3 M6 N2 N6	Use WG-337A-6 Adaptor. Test P1 and P2. Reject if below 3.
1DY4	A3 B4 C5 D2 D6 G1 G7 I6 I7 J1 K2 L1 L6 L7 M5 M6 N3 N6	
1H4G	A2 B7 D5 G3 J8 K3 K4 L1 M3 M6 N2 N6	
1K6 Tetrode Unit	A1 B6 D10 E5 G2 J7 K6 K8 L1 M3 M6 N2 N6	Use WG-337A-6 Adaptor.
1K6 Diode Unit	A1 B6 F3 G4 K9 L3 M3 M6 N2 N6	Use WG-337A-6 Adaptor. Test P1and P2. Reject if below 1.
1LF3	Use 1LE3 Data.	
2AV2	A4 B5 G9 K9 L5 M5 M6 N3 N6	
2CW4	A3 B1 B5 C2 D6 G4 I6 I8 J1 K1 K2 L1 L6 L7 M3 M6 N2 N6	Use Nuvistor Adaptor WG-340A.
2DS4	A3 B1 B5 C2 D6 G4 I6 I8 J1 K3 K4 L1 L6 L7 M3 M6 N2 N6	Use Nuvistor Adaptor WG-340A.
2DV4	A2 B4 B8 C6 D5 D7 G1 G3 I6 I10 J5 K1 K3 L1 L6 L7 M3 M6 N2 N6	Use 7-Pin Nuvistor Socket Adaptor (see last page). Depress Special Leakage/Gas Button in gas test.
2DX4	Use 2DY4 Data	
2DY4	A3 B4 C5 D2 D6 G1 G7 I6 I7 J1 K2 L1 L6 L7 M3 M6 N2 N6	
2DZ4	A3 B4 C5 D2 D6 G1 G7 J1 K6 L1 L6 L7 M3 M6 N2 N6	
2E41	Use 2E42 Data.	
2E42 Diode Unit	A4 B6 G3 K10 L3 M2 M6 N1 N6	Red mark at Pin 1 end. Reject if below 1.0.
2E42 Pentode Unit	A4 B6 D5 E2 G1 J2 K10 L4 M2 M6 N1 N6	Red mark at Pin 1 end. Reject if below 3.0. Depress Special Leakage/Gas Button in gas test.
2F05	A3 B4 B6 C1 C7 D2 G5 I6 I10 J3 K7 L1 L6 L2 M3 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
2FS5	A3 B4 C2 C7 D1 E6 G5 I6 I10 J1 K1 L1 L6 L7 M3 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
2GK5	A3 B4 B6 C1 C7 D2 G5 I6 I10 J2 K5 K6 L1 L6 L8 M3 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
2GU5	A3 B4 C2 C7 D1 E6 G5 I6 I10 J2 K4 K5 L1 L6 L7 M3 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
2GW5	A3 B4 B7 C5 D2 D6 G1 I6 I10 J2 K6 L1 L6 L8 M3 M6 N2 N6	
2HA5	A3 B4 B6 C2 C7 D1 G5 I6 I10 J2 K6 K7 L1 L6 L8 M3 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
2HK5	A3 B4 B6 C2 C7 D1 G5 I6 I10 J2 K6 K7 L1 L6 L8 M3 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
2HM5	Use 2HA5 Data.	
2HR8	A4 B5 C2 C3 C7 C8 D9 E1 G6 I6 I10 J4 K7 L1 M3 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
2L2	A1 B9 G10 K3 K4 L5 M3 M6 N2 N6	Insert base leads into Pins 1 and 9 of 9-pin socket. Connect cap lead to cap of tube.
3AW3	Use 3A3 Data	
3BX6	A4 B5 C1 C3 C6 C9 D2 E8 G7 I6 I10 J2 K2 L1 L6 L7 M3 M6 N1 N6	Depress Special Leakage/Gas Button in gas test.
3CA3	A2 B7 G10 K4 K5 L5 M5 M6 N2 N6	Reject if below 3.
3DX4	Use 3DY4 Data.	
3DY4	A3 B4 C5 D2 D6 G1 G7 I6 I7 J1 K2 L1 L6 L7 M4 M6 N2 N6	
3DZ4	A3 B4 C5 D2 D6 G1 G7 J1 K6 L1 L6 L7 M4 M6 N2 N6	
3FQ5	A3 B4 B6 C1 C7 D2 G5 I6 I10 J3 K7 L1 L6 L8 M4 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
3FS5	A3 B4 C2 C7 D1 E6 G5 I6 I10 J1 K1 L1 L6 L7 M4 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
3GK5	A3 B4 B6 C1 C7 D2 G5 I6 I10 J2 K5 K6 L1 L6 L8 M4 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
3GS8	A4 B5 C1 C6 C9 D7 E2 F3 G8 I6 I10 J1 K7 L1 M4 M6 N2 N6	Test P1 and P2. Reject if below 3.
3GU5	A3 B4 C2 C7 D1 E6 G5 I6 I10 J2 K4 K5 L1 L6 L7 M3 M6 N1 N6	Depress Special Leakage/Gas Button in gas test.
3GW5	A3 B4 B7 C5 D2 D6 G1 I6 I10 J2 K6 L1 L6 L8 M4 M6 N2 N6	
3HA5	A3 B4 B6 C2 C7 D1 G5 I6 I10 J2 K6 K7 L1 L6 L8 M4 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
3HK5	A3 B4 B6 C2 C7 D1 G5 I6 I10 J2 K6 K7 L1 L6 L8 M4 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
3HM5	Use 3HA5 Data.	
3HM6	A4 B5 B9 C1 C3 D2 F8 G7 I7 I9 J1 K5 K8 L1 L6 L8 M4 M6 N2 N6	
3HS8	A4 B5 B6 B9 C1 D7 E2 F3 G8 I6 I10 J2 K8 K9 L1 M4 M6 N2 N2	Test P1 and P2. Reject if below 3.
3HT6	A4 B5 B9 C1 C3 D2 E8 G7 I7 I10 J2 K10 L1 L6 L9 M4 M6 N2 N6	
3JC6	A4 B5 B9 C1 C3 D2 E8 G7 I7 I10 J1 K7 K10 L1 L6 L9 M5 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
3JD6	A4 B5 B9 C1 C3 D2 E8 G7 I7 I10 J1 K6 K7 L1 L6 L8 M5 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
3KF8	A4 B5 C1 C6 C9 D7 E2 F3 G8 I6 I10 J3 K6 L1 M4 M6 N2 N6	Test P1 and P2.
4AV6 Diode Unit	A3 B4 C2 F5 G6 I6 I10 K7 L4 L6 L7 M4 M6 N1 N6	Test P1 and P2. Reject if below 4.
4AV6 Triode Unit	A3 B4 C2 D1 G7 I6 I10 J2 K8 L1 M4 M6 N1 N6	Depress Special Leakage/Gas Button in gas test.
4CM4	A4 B5 C3 C7 D2 D6 D8 G1 G9 I6 I10 J2 K1 L1 L6 L7 M5 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
4CK5	A3 B4 B6 C1 C7 D2 G5 I6 I10 J2 K5 K6 L1 L6 L8 M4 M6 N1 N6	Depress Special Leakage/Gas Button in gas test.
4GS8	A4 B5 C1 C6 C9 D7 E2 F3 G8 I6 I10 J1 K7 L1 M4 M6 N1 N6	Test P1 and P2. Reject if below 3.
4GW5	A3 B4 B7 C5 D2 D6 G1 I6 I10 J2 K6 L1 L6 L8 M4 M6 N1 N6	
*4GZ5	A3 B4 C1 D2 D5 E6 G7 I7 I9 J1 K6 K8 L1 L6 L8 M5 M10 N1 N9	
4HA5	A3 B4 B6 C2 C7 D1 G5 I6 I10 J2 K6 K7 L1 L6 L8 M5 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
4HG8 Triode Unit	A4 B5 C3 D6 G7 I6 I10 J6 K5 L1 L6 L7 M4 M6 N1 N6	
4HG8 Pentode Unit	A4 B5 C1 D2 E9 G8 I6 I10 J2 K6 K7 L1 L6 L8 M4 M6 N1 N6	Depress Special Leakage/Gas Button in gas test.
4HK5	A3 B4 B6 C2 C7 D1 G5 I6 I10 I2 K6 K7 L1 L6 L8 M5 M6 N2 N6	Depress Special Leakage/Gas Button in gas test.
4HM5	Use 4HA5 Data.	
4HM6	A4 B5 B9 C1 C3 D2 E8 G7 I7 I9 J1 K5 K8 L1 L6 L8 M4 M6 N1 N6	
4HR8	A4 B5 C2 C3 C7 C8 D9 E1 G6 I6 I10 J4 K7 L1 M4 M6 N1 N6	Depress Special Leakage/Gas Button in gas test.
4HS8	A4 B5 B6 B9 C1 D7 E2 F3 G8 I6 I10 J2 K8 K9 L1 M4 M6 N1 N6	Test P1 and P2. Reject if below 3.
4HT6	A4 B5 B9 C1 C3 D2 E8 G7 I7 I10 J2 K10 L1 L6 L9 M4 M6 N1 N6	
*4JC6	A4 B5 B9 C1 C3 D2 E8 G7 I7 I10 J1 K7 K10 L1 L6 L9 M5 M6 N1 N6	Depress Special Leakage/Gas Button in gas test.
4JD6	A4 B5 B9 C1 C3 D2 E8 G7 I7 I10 J1 K6 K7 L1 L6 L8 M5 M6 N1 N6	Depress Special Leakage/Gas Button in gas test.
4JK6	A3 B4 B7 C2 D1 E6 G5 I7 I10 J1 K5 L1 L6 L8 M5 M6 N2 N6	
4JL6	A3 B4 B7 C2 D1 E6 G5 I6 I7 J1 K7 K8 L1 L6 L8 M5 M6 N2 N6	
4KF8	A4 B5 C1 C6 C9 D7 E2 F3 G8 I6 I10 J3 K6 L1 M4 M6 N1 N6	Test P1 and P2.
4KN8	A4 B5 B9 C3 C8 D2 D7 F1 G6 I6 I10 J2 K4 K5 L1 L6 L8 M4 M6 N1 N6	Test P1 and P2.
5AF4	A3 B4 C5 D2 G1 I8 I10 J1 K3 L1 L6 L7 M5 M6 N1 N6	
5EW6	A3 B4 B7 C2 D1 E6 G5 I7 I9 J1 K7 L1 L6 L8 M4 M10 N1 N9	Depress Special Leakage/Gas Button in gas test.
5GX6 Grid 1 Test	A3 B4 B7 C2 D1 E6 G5 J1 K6 L1 M5 M6 N1 N6	
5GX6 Grid 3 Test	A3 B1 B4 C2 D7 E6 G5 J1 K10 L1 M5 M6 N1 N6	Reject if below 3.
5HB7 Triode Unit	A4 B5 C1 C3 D9 G8 I7 I10 J1 K3 L1 L6 L7 M5 M6 N1 N6	
5HB7 Pentode Unit	A4 B5 C1 C3 D2 E7 G6 I6 I10 J2 K5 L1 L6 L7 M5 M6 N1 N6	
5HG8 Triode Unit	A4 B5 C3 D6 G7 I6 I10 J6 K5 L1 L6 L7 M5 M10 N1 N9	
5HG8 Pentode Unit	A4 B5 C1 D2 E9 G8 I6 I10 J2 K6 K7 L1 L6 L8 M5 M10 N1 N9	Depress Special Leakage/Gas Button in gas test.

* Indicates corrected data. Discard previous punching information.

TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
5JK6	A3 B4 B7 C2 D1 E6 G5 I7 I10 J1 K5 L1 L6 L8 M5 M6 N1 N6	
5JL6	A3 B4 B7 C2 D1 E6 G5 I6 I7 J1 K7 K8 L1 L6 L8 M5 M6 N1 N6	
5KD8 Triode Unit	A4 B5 B7 C8 D9 G1 I6 I10 J2 K4 K5 L1 L6 L7 M4 M10 N1 N9	
5KD8 Pentode Unit	A4 B5 C7 D2 E3 G6 I6 I10 J2 K5 L1 L6 L7 M4 M10 N1 N9	
*5KE8 Triode Unit	A4 B5 B7 C8 D9 G1 I7 I10 J1 K1 K2 L1 L6 L7 M4 M10 N1 N9	
5KE8 Pentode Unit	A4 B1 B5 C7 D2 E3 G6 I6 I9 J1 K5 K7 L1 L6 L8 M4 M10 N1 N9	Depress Special Leakage/Gas Button in gas test.
6AE8 Triode Unit	A4 B1 B2 B5 B6 C3 D7 G8 I6 I10 J5 K6 K7 L1 M5 M10 N2 N9	
6AE8 Hexode Unit	A4 B5 B7 C3 D2 E1 G6 I6 I10 J5 K7 L1 M5 M10 N2 N9	
6AL3	A4 B5 C10 G3 G8 G9 K2 K3 L4 L6 L9 M3 M10 N1 N9	Reject if below 4.
6AR7 Pentode Unit	A1 B8 C7 D10 E4 G3 I6 I10 J6 K4 K5 L1 M5 M10 N2 N9	
6AR7 Diode Unit	A1 B8 C7 F5 G6 K6 K7 L4 L6 L7 M5 M10 N2 N9	Test P1 and P2. Reject if below 3.
6AU7	A4 B5 C3 C8 D2 D7 F1 G6 I6 I10 J5 K9 L1 L6 L7 M5 M10 N2 N9	Test P1 and P2.
6AX7	A4 B5 C3 C8 D2 D7 F1 G6 I6 I10 J2 K8 L1 M5 M10 N2 N9	Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
6BD7/EBC 81 Triode Unit	A4 B5 C3 D2 G1 I6 I10 J2 K6 K7 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6BD7/EBC 81 Diode Unit	A4 B5 C3 F8 G6 K3 L4 M5 M10 N2 N9	Test P1 and P2. Reject if below 3.
6BF8 Diode Units 1, 2, 3	A4 B5 C6 F8 G9 H7 I6 I10 K3 K4 L3 L6 L7 M5 M10 N2 N9	Test P1, P2 and P3. Reject if below 2.
6BF8 Diode Units 4, 5, 6	A4 B5 C6 F2 G3 H1 I6 I10 K3 K4 L3 L6 L7 M5 M10 N2 N9	Test P1, P2 and P3. Reject if below 2.
6BJ5	A3 B4 C2 D1 E7 G5 I6 I10 J3 K3 L1 L6 L7 M3 M10 N1 N9	
6BK6	Use 6AV6 Data.	
6BL8 Triode Unit	A4 B5 C8 D9 G1 I6 I10 J4 K5 L1 L6 L7 M5 M10 N2 N9	
6BL8 Pentode Unit	A4 B5 C7 D2 E3 G6 I6 I10 J2 K4 L1 L6 L7 M5 M10 N2 N9	
6BR3	A4 B5 C10 G9 K8 L4 L6 L10 M4 M10 N2 N9	Reject if below 4.
6BV7 Pentode Unit	A4 B5 C9 D8 E3 G2 I6 I10 J5 K2 L1 L6 L8 M5 M10 N2 N9	
6BV7 Diode Unit	A4 B5 C7 F1 G6 K4 K5 L3 M5 M10 N2 N9	Test P1 and P2. Reject if below 2.
6BX8	A4 B5 B9 C3 C8 D2 D7 F1 G6 I6 I10 J4 K2 L1 L6 L7 M5 M10 N2 N9	Test P1 and P2. Use Special Leakage Test.
6CM4	A4 B5 C3 C7 D2 D6 D8 G1 G9 I6 I10 J2 K1 L1 L6 L7 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6CR4	A7 B8 C1 D1 D3 D4 D6 D9 G5 I6 I10 J2 K5 L1 L6 L8 M5 M10 N2 N9	
6CS5	Use 6HD5 Data.	
6DL4	A4 B5 C2 D1 D3 D6 D7 D9 G8 I7 I9 J1 K1 L1 L6 L7 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
6DM4	A7 B8 C3 G5 I6 I10 K6 L4 L6 L10 M4 M10 N2 N9	Reject if below 4.
6DQ4	Use 6AX4 Data.	
6DR4	A3 B4 C7 D6 G1 G5 I6 I10 J2 K8 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6DS4	A3 B1 B5 C2 D6 G4 I6 I8 J1 K3 K4 L1 L6 L7 M5 M10 N2 N9	Use Nuvistor WG-340A Adaptor.
6DT4	A7 B8 C3 G5 I6 I10 K5 L4 L6 L10 M4 M10 N2 N9	Reject if below 4.
6DV4	A2 B4 B8 C6 D5 D7 G1 G3 I6 I10 J5 K1 K3 L1 L6 L7 M5 M10 N2 N9	Use 7-Pin Nuvistor Socket Adaptor (see last page). Depress Special Leakage/Gas Button in gas test.
6DX4	Use 6DY4 Data.	
6DX8 Triode Unit	A4 B5 B7 C3 D1 G2 I6 I10 J2 K8 L1 L6 L7 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6DX8 Pentode Unit	A4 B5 C7 D8 E9 G6 I6 I10 J3 K2 L1 L6 L7 M5 M10 N2 N9	
6DY4	A3 B4 C5 D2 D6 G1 G7 I6 I7 J1 K2 L1 L6 L7 M5 M10 N2 N9	
6DZ4	A3 B4 C5 D2 D6 G1 G7 J1 K6 L1 L6 L7 M5 M10 N2 N9	
6E7	A1 B7 C4 C6 D10 E3 G2 I6 I10 J6 K10 L1 L6 L7 M5 M10 N2 N9	Use WG-337A-7 Adaptor.
6EC7	A4 B5 C1 C3 C6 C9 D2 E8 G7 I6 I10 J3 K6 L1 L6 L7 M5 M10 N2 N9	
6EL7	A4 B5 B6 C1 C3 C9 D2 E8 G7 I7 I9 J1 K1 K2 L1 L6 L7 M5 M10 N2 N9	
6ES6	A3 B4 C2 C7 D1 G5 G6 I6 I10 J6 K7 K10 L2 M5 M10 N2 N9	
6ET7 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K10 L1 L6 L9 M3 M10 N1 N9	
6ET7 Diode Unit	A4 B5 C1 F2 G3 K3 K4 L4 M3 M10 N1 N9	Test P1 and P2. Reject if below 3.
6EW7 Triode Unit 1	A4 B5 C8 D7 G6 I6 I10 J7 K10 L1 L6 L7 M3 M10 N1 N9	
6EW7 Triode Unit 2	A4 B5 C9 D2 G1 I6 I10 J10 K3 L1 L6 L7 M3 M10 N1 N9	
6F18	Use 6EC7 Data.	
6FC7	A4 B5 C3 C8 D2 D7 F1 G6 I6 I8 J1 K3 L1 L6 L7 M5 M10 N2 N9	Test P1 and P2. Special Leakage Test.
6FD6	A3 B4 C2 C7 D1 E6 G5 I6 I10 J2 K6 L2 M5 M10 N2 N9	
6FN5	A2 B7 C3 C6 D4 D5 E1 E8 G10 I7 I10 J1 K5 K7 L1 L6 L8 M4 M10 N2 N9	
6FQ5	A3 B4 B6 C1 C7 D2 G5 I6 I10 J3 K7 L1 L6 L8 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6FQ7	Use 6CG7 data	
6FR7 Triode Unit 1	A4 B5 C8 D7 G6 I6 I10 J2 K6 K7 L1 M3 M10 N1 N9	Depress Special Leakage/Gas Button in gas test.
6FR7 Triode Unit 2	A4 B5 C9 D2 D3 G1 I6 I10 J10 K4 L1 L6 L7 M3 M10 N1 N9	
6FS5	A3 B4 C2 C7 D1 E6 G5 I6 I10 J1 K1 L1 L6 L7 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6GA8	A4 B5 C3 C8 C9 D2 D7 F1 G6 I6 I10 J7 K2 L1 M5 M10 N2 N9	Test P1 and P2.
6GC5	A4 B5 C7 D3 D6 E1 E8 G9 I6 I7 J1 K8 L1 L6 L8 M3 M10 N1 N9	
6GD7 Triode Unit	A4 B5 C3 C8 D1 G2 I6 I10 J2 K5 K7 L1 L6 L8 M5 M10 N2 N6	
6GD7 Pentode Unit	A4 B5 C3 C8 D9 E7 G6 I7 I10 J1 K7 L1 L6 L8 M5 M10 N2 N9	
6GJ7 Triode Unit	A4 B5 C1 C3 D9 G8 I6 I10 J6 K6 K7 L1 L6 L8 M5 M10 N2 N9	
6GJ7 Pentode Unit	A4 B5 C1 C3 D2 E7 G6 I6 I10 J2 K6 K7 L1 L6 L8 M5 M10 N2 N9	
6GK5	A3 B4 B6 C1 C7 D2 G5 I6 I10 J2 K5 K6 L1 L6 L8 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6GL7 Triode Unit 1	A7 B8 C8 D4 G5 I6 I10 J2 K6 K7 L1 M3 M10 N1 N9	Depress Special Leakage/Gas Button in gas test.
6GL7 Triode Unit 2	A7 B8 C3 D1 G2 I6 I10 J10 K5 K6 L1 L6 L7 M3 M10 N1 N9	
6GM5	A4 B5 C7 D6 E1 G9 I6 I10 J5 K2 L1 L6 L7 M3 M10 N1 N9	
6GM8	A4 B5 B9 C3 C8 D2 D7 F1 G6 I7 I10 J1 K8 L2 L6 L7 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test. Test P1 and P2.
6GQ7	A4 B5 C1 C7 C9 F6 G8 H2 I6 I10 K7 L3 L6 L8 M5 M10 N2 N9	Test P1, P2 and P3. Reject if below 4.
6GS8	A4 B5 C1 C6 C9 D7 E2 F3 G8 I6 I10 J1 K7 L1 M5 M10 N2 N9	Test P1 and P2. Reject if below 3.
6GU5	A3 B4 C2 C7 D1 E6 G5 I6 I10 J2 K4 K5 L1 L6 L7 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6GU7	A4 B5 C3 C8 D2 D7 F1 G6 I6 I10 J7 K8 L1 L6 L7 M5 M10 N2 N9	Test P1 and P2.
6GV8 Triode Unit	A4 B5 C3 C8 D2 G1 I6 I10 J2 K4 K5 L1 L6 L7 M3 M10 N1 N9	
6GV8 Pentode Unit	A4 B5 C8 D9 E7 G6 I6 I10 J9 K1 K3 L1 L6 L7 M3 M10 N1 N9	
6GW5	A3 B4 B7 C5 D2 D6 G1 I6 I10 J2 K6 L1 L6 L8 M5 M10 N2 N9	
6GW8 Triode Unit	A4 B5 C2 D1 G9 I6 I10 J2 K9 K10 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6GW8 Pentode Unit	A4 B5 C7 D8 E3 G6 I6 I10 J5 K2 L1 L6 L7 M5 M10 N2 N9	
6GX6 Grid 1 Test	A3 B4 B7 C2 D1 E6 G5 J1 K6 L1 M5 M10 N2 N9	
6GX6 Grid 3 Test	A3 B1 B4 C2 D7 E6 G5 J1 K10 L1 M5 M10 N2 N9	Reject if below 3.
6GY6	Use 6GX6 data	
6GY8	A5 B4 C1 C3 C7 C8 F9 G6 H2 I6 I10 K4 K5 L5 M5 M10 N2 N9	Test P1 - P2 - P3. Reject if below 3. Shows Short on K. Emission Test Only.
6GZ5	A3 B4 C1 D2 D5 E6 G7 I7 I9 J1 K6 K8 L1 L6 L8 M5 M10 N2 N9	
6HA5	A3 B4 B6 C2 C7 D1 G5 I6 I10 J2 K6 K7 L1 L6 L8 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6HA6	A4 B3 B5 B9 C1 D2 E6 E8 G7 I7 I10 J1 K5 K6 L1 L6 L8 M5 M10 N2 N9	
6HB6	A4 B3 B5 B9 C1 D2 E8 G7 I6 I9 J1 K3 K4 L1 L6 L8 M3 M10 N1 N9	
6HB7 Triode Unit	A4 B5 C1 C3 D9 G8 I7 I10 J1 K3 L1 L6 L7 M5 M10 N2 N9	
6HB7 Pentode Unit	A4 B5 C1 C3 D2 E7 G6 I6 I10 J2 K5 L1 L6 L7 M5 M10 N2 N9	

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
6HC8 Pentode Unit	A4 B5 C2 D3 E7 G6 I6 I10 J9 K7 L1 L6 L7 M4 M10 N2 N9	
6HC8 Triode Unit	A4 B2 B5 C8 D1 G9 I6 I10 J3 K5 K6 L1 M4 M10 N2 N9	Reject if below 3. Depress Special Leakage/Gas Button in gas test.
6HF8 Triode Unit	A4 B5 C1 D2 G3 I6 I10 J2 K7 K8 L1 L6 L7 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6HF8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I10 J1 K7 L1 L6 L8 M5 M10 N2 N9	
6HG5	A3 B4 C2 D1 E6 G5 I6 I10 J8 K8 L1 L6 L7 M5 M10 M2 N9	
6HG8 Triode Unit	A4 B5 C3 D6 G7 I6 I10 J6 K5 L1 L6 L7 M5 M10 N2 N9	
6HG8 Pentode Unit	A4 B5 C1 D2 E9 G8 I6 I10 J2 K6 K7 L1 L6 L8 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6HJ8 Pentode Unit	A4 B5 B9 C1 D2 E3 G6 I7 I10 J1 K7 K8 L1 L6 L8 M5 M10 N2 N9	
6HJ8 Diode Unit	A4 B5 B9 C7 G8 I6 I10 K6 K7 L3 L6 L8 M5 M10 N2 N9	Reject if below 3.
6HK5	A3 B4 B6 C2 C7 D1 G5 I6 I10 J2 K6 K7 L1 L6 L8 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6HL8 Triode Unit	A4 B5 B7 C8 D9 G1 I6 I10 J2 K5 L1 L6 L7 M5 M10 N2 N9	
6HL8 Pentode Unit	A4 B5 C7 D2 E3 G6 I6 I10 J2 K2 L1 L6 L7 M5 M10 N2 N9	
6HM5	Use 6HA5 Data.	
6HM6	A4 B5 B9 C1 C3 D2 E8 G7 I7 I9 J1 K5 K8 L1 L6 L8 M5 M10 N2 N9	
6HQ6	A3 B4 B7 C2 D1 E6 G5 I7 I10 J1 K7 L1 L6 L8 M5 M10 N2 N9	
6HR6	A3 B2 B4 C7 D1 E6 G5 I7 I10 J1 K2 K3 L1 L6 L7 M5 M10 N2 N9	
6HS6	A3 B2 B4 C7 D1 E6 G5 I8 I10 J1 K2 K3 L1 L6 L7 M5 M10 N2 N9	
6HS8	A4 B5 B6 B9 C1 D7 E2 F3 G8 I6 I10 J2 K8 K9 L1 M5 M10 N2 N9	Test P1 and P2. Reject if below 3.
6HT6	A4 B5 B9 C1 C3 D2 E8 G7 I7 I10 J2 K10 L1 L6 L9 M5 M10 N2 N9	
6HU6	A4 B5 C3 D1 E6 F7 G9 I6 I10 J5 K8 L1 M5 M10 N2 N9	P1—Test triode quality. Eye ½ open. P2—Eye completely closed.
6HU8	A4 B5 C7 D2 D6 E1 E9 F8 G3 I8 I10 J1 K5 K7 L1 L6 L7 M3 M10 N1 N9	Test P1 and P2.
6HW8 Deflection Plate 1	A4 B5 C1 C7 D6 E3 E9 F2 G8 I6 I9 J1 K9 L1 M5 M10 N2 N9	Reject if below 2 on P1. Reject if above 0 on P2.
6HW8 Deflection Plate 2	A4 B5 C7 C9 D6 E1 E3 F8 G2 I6 I9 J1 K9 L1 M5 M10 N2 N9	Reject if below 2 on P1. Reject if above 0 on P2.
6HZ6	A3 B4 B7 C2 D1 E6 G5 I8 I9 J1 K9 L1 L6 L7 M5 M10 N2 N9	
6HZ8 Triode Unit	A4 B5 C1 D2 G3 J1 K7 K8 L1 L6 L7 M3 M10 N1 N9	Depress Special Leakage/Gas Button in gas test.
6HZ8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I10 J1 K6 K7 L1 L6 L8 M3 M10 N1 N9	

TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
6JA8 Triode Unit	A4 B4 B6 C1 D2 G3 I6 I10 J3 K7 L1 L6 L7 M3 M10 N1 N9	Depress Special Leakage/Gas Button in gas test.
6JA8 Tetrode Unit	A4 B5 C6 D7 E8 G9 I6 I10 J2 K5 L1 L6 L8 M3 M10 N1 N9	
6JC6	A4 B5 B9 C1 C3 D2 E8 G7 I7 I10 J1 K7 K10 L1 L6 L9 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6JC8 Triode Unit	A4 B5 C1 C7 D8 G9 I6 I10 J2 K4 L1 L6 L7 M5 M10 N2 N9	
6JC8 Pentode Unit	A4 B5 C1 C7 D2 E3 G6 I6 I10 J2 K6 L1 L6 L7 M5 M10 N2 N9	
6JD6	A4 B5 B9 C1 C3 D2 E8 G7 I7 I10 J1 K6 K7 L1 L6 L8 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6JE8 Triode Unit	A4 B5 C1 D2 G3 J1 K7 K8 L1 L6 L7 M3 M10 N1 N9	Depress Special Leakage/Gas Button in gas test.
6JE8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I10 J1 K1 L1 L6 L7 M3 M10 N1 N9	
6JG6	A4 B5 C3 C6 D2 E1 E7 G9 I8 I10 J10 K8 L1 L6 L8 M3 M10 N1 N9	
6JH6	A3 B4 C2 C7 D1 E6 G5 I6 I7 J1 K5 L1 L6 L7 M5 M10 N2 N9	
6JH8	A4 B1 B2 B5 C7 D6 E3 F8 G9 I8 I10 J1 K3 L1 M5 M10 N2 N9	Test P1 and P2.
6JK6	A3 B4 B7 C2 D1 E6 G5 I7 K10 J1 K5 L1 L6 L8 M5 M10 N2 N9	
6JK8 Triode Unit 1	A4 B5 B9 C8 D7 G6 I6 I10 J2 K2 L1 L6 L7 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6JK8 Triode Unit 2	A4 B5 B9 C3 D2 G1 I6 I10 J3 K7 K8 L1 L6 L8 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6JL6	A3 B4 B7 C2 D1 E6 G5 I6 I7 J1 K7 K8 L1 L6 L8 M5 M10 N2 N9	
6JL8 Triode Unit	A4 B5 C1 D2 G3 I8 I9 J1 K6 L1 L6 L7 M5 M10 N2 N9	
6JL8 Pentode Unit	A4 B5 C6 D7 E8 G9 I6 I10 J4 K6 L1 L6 L8 M5 M10 N2 N9	
6JN8 Triode Unit	A4 B5 B8 C3 D1 G2 I6 I10 J2 K2 L1 L6 L7 M5 M10 N2 N9	
6JN8 Pentode Unit	A4 B5 C8 D9 E7 G6 I6 I10 J2 K3 K4 L1 L6 L7 M5 M10 N2 N9	
6JT8 Triode Unit	A4 B5 B6 C1 D2 G3 I6 I10 J2 K6 K7 L1 M3 M10 N1 N9	Depress Special Leakage/Gas Button in gas test.
6JT8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K4 L1 L6 L8 M3 M10 N1 N9	
6JU8 Diode Units 1, 2	A4 B5 B6 C3 C9 F2 G8 I6 I10 K7 L3 L6 L8 M5 M10 N2 N9	Test P1 and P2. Reject if below 4.
6JU8 Diode Units 3, 4	A4 B5 B6 C2 C8 F1 G7 I6 I10 K7 L3 L6 L8 M5 M10 N2 N9	Test P1 and P2. Reject if below 4.
6JV8 Triode Unit	Use 6AW8 Triode Card.	
6JV8 Pentode Unit	A4 B5 C6 D7 E8 G9 I6 I10 J2 K6 K7 L1 L6 L8 M5 M10 N2 N9	
6KA8 Triode Unit	A4 B5 C3 D2 G1 I6 I10 J2 K1 K3 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6KA8 Pentode Unit Grid 1 Test	A4 B5 B7 C3 D6 E8 G9 I6 I7 J1 K4 K5 L1 M5 M10 N2 N9	

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
6KA8 Pentode Unit Grid 3 Test	A4 B5 B6 C3 D7 E8 G9 I6 I7 J1 K10 L1 M5 M10 N2 N9	Reject if below 3.
6KD8 Triode Unit	A4 B5 B7 C8 D9 G1 I6 I10 J2 K4 K5 L1 L6 L7 M5 M10 N2 N9	
6KD8 Pentode Unit	A4 B5 C7 D2 E3 G6 I6 I10 J2 K5 L1 L6 L7 M5 M10 N2 N9	
6KE8 Triode Unit	A4 B5 B7 C8 D9 G1 I7 I10 J1 K1 K2 L1 L6 L7 M5 M10 N2 N9	
6KE8 Pentode Unit	A4 B1 B5 C7 D2 E3 G6 I6 I9 J1 K5 K7 L1 L6 L8 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6KF8	A4 B5 C1 C6 C9 D7 E2 F3 G8 I6 I10 J3 K6 L1 M5 M10 N2 N9	Test P1 and P2.
6KL8 Diode Unit	A4 B5 B9 C3 G8 K3 L4 M5 M10 N2 N9	Reject if below 1.0.
6KL8 Pentode Unit	A4 B1 B5 B9 C3 D2 E6 G7 I8 I10 J1 K7 L1 L6 L7 M5 M10 N2 N9	
6KM8 Tetrode Unit	A4 B5 C6 D7 E8 F2 G9 H1 I6 I10 J2 K8 K9 L1 M5 M10 N2 N9	Reject if below 4 on P1. Reject if below 2 on P2 and P3.
6KM8 Diode Unit	A4 B5 C6 G3 K3 K4 L4 M5 M10 N2 N9	Reject if below 2.
6KN8	A4 B5 B9 C3 C8 D2 D7 F1 G6 I6 I10 J2 K4 K5 L1 L6 L8 M5 M10 N2 N9	Test P1 and P2.
6KR8 Triode Unit	A4 B5 B6 C1 D2 G3 I7 I10 J1 K6 K8 L1 L6 L8 M5 M10 N2 N9	
6KR8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K4 K5 L1 L6 L8 M5 M10 N2 N9	
6KS8 Triode Unit	A4 B5 B6 C1 D2 G3 I6 I10 J2 K10 L1 L6 L8 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6KS8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K10 L1 L6 L9 M5 M10 N2 N9	
6KT8 Triode Unit	A4 B5 C1 D2 G3 I6 I10 J2 K8 L1 L6 L7 M3 M10 N1 N9	Depress Special Leakage/Gas Button in gas test.
6KT8 Pentode Unit	A4 B5 C6 D7 E8 G9 I6 I10 J2 K8 L1 L6 L8 M3 M10 N1 N9	
6KU8 Diode Unit	A4 B5 B6 C1 F2 G3 I6 I10 K1 L4 M3 M10 N1 N9	Test P1 and P2. Reject if below 2.
6KU8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K4 L1 L6 L8 M3 M10 N1 N9	
6KV8 Triode Unit	A4 B5 B6 C1 D2 G3 I6 I10 J2 K7 L1 L6 L7 M3 M10 N1 N9	Depress Special Leakage/Gas Button in gas test.
6KV8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K5 L1 L6 L8 M3 M10 N1 N9	
6KZ8 Pentode Unit	A4 B5 C3 D2 E7 G6 I6 I10 J2 K4 L1 L6 L7 M5 M10 N2 N9	
6KZ8 Triode Unit	A4 B3 B5 C8 C9 G1 I6 I10 J2 K3 L1 L6 L7 M5 M10 N2 N9	
6LB8 Triode Unit	A4 B5 B6 C1 D2 G3 I7 I10 J1 K7 L1 L6 L7 M3 M10 N1 N9	
6LB8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K4 L1 L6 L8 M3 M10 N1 N9	
6LC8 Triode Unit	A4 B5 C3 D2 G1 I6 I10 J2 K1 K3 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6LC8 Pentode Unit Grid 1 Test	A4 B3 B5 C7 D6 E8 G9 I6 I7 J1 K4 K5 L1 M5 M10 N2 N9	
6LC8 Pentode Unit Grid 3 Test	A4 B5 B6 C7 D3 E8 G9 I6 I7 J1 K10 L1 M5 M10 N2 N9	Reject if below 3.

TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
6LF8 Triode Unit	A4 B5 B6 C1 D2 G3 I6 I10 J2 K3 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6LF8 Pentode Unit	A4 B5 C6 D7 E8 G9 I6 I10 J4 K6 K8 L1 L6 L8 M5 M10 N2 N9	
6SZ7 Triode Unit	A7 B8 C3 C4 C5 D2 G6 I6 I10 J2 K8 L1 M5 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
6SZ7 Diode Unit	A7 B8 C3 F4 G5 I6 I10 K7 L4 L6 L7 M5 M10 N2 N9	Test P1 and P2. Reject if below 4.
6ZY5	Use 6X5 Data.	
7ED7	A4 B5 C1 C3 C6 C9 D2 E8 G7 I6 I10 J2 K1 K2 L1 L6 L7 M3 M10 N2 N9	
7EK7	A4 B5 C1 C7 C8 D2 D6 F1 G9 I7 I9 J1 K2 L1 L6 L7 M4 M10 N2 N9	Test P1 and P2.
7FC7	A4 B5 C3 C8 D2 D7 F1 G6 I6 I8 J1 K3 L1 L6 L7 M3 M10 N2 N9	Test P1 and P2. Special Leakage Test.
7HG8 Triode Unit	A4 B5 C3 D6 G7 I6 I10 J6 K5 L1 L6 L7 M3 M10 N2 N9	
7HG8 Pentode Unit	A4 B5 C1 D2 E9 G8 I6 I10 J2 K6 K7 L1 L6 L8 M3 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
8A8 Pentode Unit	A4 B1 B5 C7 D2 E3 G6 I6 I10 J3 K5 L1 L6 L7 M5 M10 N3 N9	
8A8 Triode Unit	A4 B5 B7 C8 D9 G1 I6 I10 J4 K5 K6 L1 L6 L7 M5 M10 N3 N9	
8B8 Pentode Unit	A4 B5 C2 D3 E7 G6 I6 I10 J9 K3 L1 L6 L7 M3 M10 N2 N9	
8B8 Triode Unit	A4 B5 C8 D1 G9 I6 I10 J2 K5 K6 L1 M3 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
8ET7 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K10 L1 L6 L9 M5 M10 N3 N9	
8ET7 Diode Unit	A4 B5 C1 F2 G3 K3 K4 L4 M5 M10 N3 N9	Test P1 and P2. Reject if below 3.
8EV7	A4 B5 C3 C8 D2 D7 F1 G6 I7 I10 J1 K6 K7 L1 L6 L7 M5 M10 N3 N9	Test P1 and P2.
8FQ7	Use 8CG7 data	
8HA6	A4 B3 B5 B9 C1 D2 E6 E8 G7 I7 I10 J1 K5 K6 L1 L6 L8 M5 M10 N3 N9	
8HG8 Triode Unit	A4 B5 C3 D6 G7 I6 I10 J6 K5 L1 L6 L7 M5 M10 N3 N9	
8HG8 Pentode Unit	A4 B5 C1 D2 E9 G8 I6 I10 J2 K6 K7 L1 L6 L8 M5 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
8JE8 Triode Unit	A4 B5 C1 D2 G3 J1 K7 K8 L1 L6 L7 M5 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
8JE8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I10 J1 K1 L1 L6 L7 M5 M10 N3 N9	
8JK8 Triode Unit 1	A4 B5 B9 C8 D7 G6 I6 I110 J2 K2 L1 L6 L7 M5 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
8JK8 Triode Unit 2	A4 B5 B9 C3 D2 G1 I6 I10 J3 K7 K8 L1 L6 L8 M5 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
8JL8 Triode Unit	A4 B5 C1 D2 G3 I8 I9 J1 K6 L1 L6 L7 M5 M10 N3 N9	
8JL8 Pentode Unit	A4 B5 C6 D7 E8 G9 I6 I10 J4 K6 L1 L6 L8 M5 M10 N3 N9	
8JT8 Triode Unit	A4 B5 B6 C1 D2 G3 I6 I10 J2 K6 K7 L1 M3 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
8JT8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K4 L1 L6 L8 M3 M10 N2 N9	
8JV8 Triode Unit	A4 B5 C1 D2 G3 I6 I10 J2 K10 L1 L6 L8 M5 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
8JV8 Pentode Unit	A4 B5 C6 D7 E8 G9 I6 I10 J2 K6 K7 L1 L6 L8 M5 M10 N3 N9	
8KA8 Triode Unit	A4 B5 C3 D2 G1 I6 I10 J2 K1 K3 L1 M5 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
8KA8 Pentode Unit Grid 1 Test	A4 B5 B7 C3 D6 E8 G9 I6 I7 J1 K4 K5 L1 M5 M10 N3 N9	
8KA8 Pentode Unit Grid 3 Test	A4 B5 B6 C3 D7 E8 G9 I6 I7 J1 K10 L1 M5 M10 N3 N9	Reject if below 3.
8KS8 Triode Unit	A4 B5 B6 C1 D2 G3 I6 I10 J2 K10 L1 L6 L8 M5 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
8KS8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K10 L1 L6 L9 M5 M10 N3 N9	
8LC8 Triode Unit	A4 B5 C3 D2 G1 I6 I10 J2 K1 K3 L1 M5 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
8LC8 Pentode Unit Grid 1 Test	A4 B3 B5 C7 D6 E8 G9 I6 I7 J1 K4 K5 L1 M5 M10 N3 N9	
8LC8 Pentode Unit Grid 3 Test	A4 B5 B6 C7 D3 E8 G9 I6 I7 J1 K10 L1 M5 M10 N3 N9	Reject if below 3.
9A8 Pentode Unit	A4 B1 B5 C7 D2 E3 G6 I6 I10 J3 K5 L1 L6 L7 M4 M10 N3 N9	
9A8 Triode Unit	A4 B5 B7 C8 D9 G1 I6 I10 J4 K5 K6 L1 L6 L7 M4 M10 N3 N9	
9AB4	A4 B2 B3 C7 D6 G1 J1 K6 L1 L6 L7 M5 M10 N4 N9	
9CG8 Pentode Unit	A4 B5 C3 C8 D9 E7 G6 I7 I8 J1 K6 L1 L6 L7 M5 M10 N4 N9	
9CG8 Triode Unit	A4 B5 C3 D1 G2 I7 I9 J1 K3 L1 L6 L7 M5 M10 N4 N9	
9EA8 Triode Unit	A4 B5 C8 D9 G1 I6 I9 J1 K1 L1 L6 L7 M5 M10 N4 N9	
9EA8 Pentode Unit	A4 B5 C7 D2 E3 G6 I6 I10 J2 K3 L1 L6 L7 M5 M10 N4 N9	
9GB8 Triode Unit	A4 B5 B9 C3 D2 G1 I6 I10 J6 K6 K8 L1 L6 L7 M5 M10 N4 N9	
9GB8 Tetrode Unit	A4 B5 C9 D8 E7 G6 I6 I10 J2 K6 K7 L1 L6 L8 M5 M10 N4 N9	
9GV8 Triode Unit	A4 B5 C3 C8 D2 G1 I6 I10 J2 K4 K5 L1 L6 L7 M5 M10 N5 N9	
9GV8 Pentode Unit	A4 B5 C8 D9 E7 G6 I6 I10 J9 K1 K3 L1 L6 L7 M5 M10 N5 N9	
9KZ8 Pentode Unit	A4 B5 C3 D2 E7 G6 I6 I10 J2 K4 L1 L6 L7 M5 M10 N4 N9	
9KZ8 Triode Unit	A4 B3 B5 C8 D9 G1 I6 I10 J2 K3 L1 L6 L7 M5 M10 N4 N9	
10DX8 Triode Unit	A4 B5 B7 C3 D1 G2 I6 I10 J2 K8 L1 L6 L7 M4 M10 N5 N9	Depress Special Leakage/Gas Button in gas test.
10DX8 Pentode Unit	A4 B5 C7 D8 E9 G6 I6 I10 J3 K2 L1 L6 L7 M4 M10 N5 N9	
10EM7 Triode Unit 1	A7 B8 C6 D4 G5 I6 I10 J2 K6 K7 L1 M5 M10 N5 N9	Depress Special Leakage/Gas Button in gas test.
10EM7 Triode Unit 2	A7 B8 C3 D1 G2 I6 I10 J10 K4 L1 L6 L7 M5 M10 N5 N9	
10EW7 Triode Unit 1	A4 B5 C8 D7 G6 I6 I10 J7 K10 L1 L6 L7 M4 M10 N5 N9	
10EW7 Triode Unit 2	A4 B5 C9 D2 G1 I6 I10 J10 K3 L1 L6 L7 M4 M10 N5 N9	
10FR7 Triode Unit 1	A4 B5 C8 D7 G6 I6 I10 J2 K6 K7 L1 M4 M10 N5 N9	Depress Special Leakage/Gas Button in gas test.
10FR7 Triode Unit 2	A4 B5 C9 D2 D3 G1 I6 I10 J10 K4 L1 L6 L7 M4 M10 N5 N9	
10GK6	A4 B3 B5 B9 C1 D2 E8 G7 I6 I10 J5 K6 K7 L1 L6 L8 M3 M10 N4 N9	
10GN8 Triode Unit	A4 B5 C1 D2 G3 I6 I10 J2 K3 L1 M4 M10 N5 N9	Depress Special Leakage/Gas Button in gas test.
10GN8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K7 L1 L6 L8 M4 M10 N5 N9	
10HA6	A4 B3 B5 B9 C1 D2 E6 E8 G7 I7 I10 J1 K5 K6 L1 L6 L8 M3 M10 N4 N9	
10HF8 Triode Unit	A4 B5 C1 D2 G3 I6 I10 J2 K7 K8 L1 L6 L7 M4 M10 N5 N9	Depress Special Leakage/Gas Button in gas test.
10HF8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I10 J1 K7 L1 L6 L8 M4 M10 N5 N9	
10JA8 Triode Unit	A4 B5 B6 C1 D2 G3 I6 I10 J3 K7 L1 L6 L7 M3 M10 N4 N9	Depress Special Leakage/Gas Button in gas test.
10JA8 Tetrode Unit	A4 B5 C6 D7 E8 G9 I6 I10 J2 K5 L1 L6 L8 M3 M10 N4 N9	
10JT8 Triode Unit	A4 B5 B6 C1 D2 G3 I6 I10 J2 K6 K7 L1 M3 M10 N4 N9	Depress Special Leakage/Gas Button in gas test.
10JT8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K4 L1 L6 L8 M3 M10 N4 N9	
10JY8 Triode Unit	A4 B5 B6 C1 D2 G3 I7 I10 J1 K1 L1 L6 L7 M4 M10 N5 N9	
10JY8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K6 K7 L1 L6 L8 M4 M10 N5 N9	
10KR8 Triode Unit	A4 B5 B6 C1 D2 G3 I7 I10 J1 K6 K8 L1 L6 L8 M3 M10 N4 N9	
10KR8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K4 K5 L1 L6 L8 M3 M10 N4 N9	
10KU8 Diode Unit	A4 B5 B6 C1 F2 G3 I6 I10 K1 L4 M3 M10 N4 N9	Test P1 and P2. Reject if below 2.
10KU8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K4 L1 L6 L8 M3 M10 N4 N9	
10LB8 Triode Unit	A4 B5 B6 C1 D2 G3 I7 I10 J1 K7 L1 L6 L7 M3 M10 N4 N9	
10LB8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K4 L1 L6 L8 M3 M10 N4 N9	
11JE8 Triode Unit	A4 B5 C1 D2 G3 J1 K7 K8 L1 L6 L7 M4 M10 N5 N9	Depress Special Leakage/Gas Button in gas test.
11JE8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I10 J1 K1 L1 L6 L7 M4 M10 N5 N9	
11KV8 Triode Unit	A4 B5 B6 C1 D2 G3 I6 I10 J2 K7 L1 L6 L7 M1 M10 N2 N9	Depress Special Leakage/Gas Button in gas test.
11KV8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K5 L1 L6 L8 M1 M10 N2 N9	
12AU8 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I9 J1 K8 L1 L6 L8 M2 M10 N3 N9	
12AU8 Triode Unit	A4 B5 C1 D2 G3 I8 I9 J1 K6 L1 L6 L7 M2 M10 N3 N9	
12BF5	A4 B5 C3 D2 E9 G7 I6 I10 J8 K1 K3 L1 L6 L7 M2 M10 N4 N9	
12BK6	Use 12AV6 Data.	
12BR3	A4 B5 C10 G9 K8 L4 L6 L10 M2 M10 N4 N9	Reject if below 4.

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
12BX6	A4 B5 C1 C3 C6 C9 D2 E8 G7 I6 I10 J2 K2 L1 L6 L7 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
12BY3	A4 B5 C10 G9 I6 I10 K4 L4 L6 L10 M2 M10 N4 N9	Reject if below 4.
12CD7	A2 B7 C8 D4 E5 F6 G3 J3 K10 L1 M2 M10 N4 N9	P1—Gm test—one eye open—one closed. P2—other eye open—second closed. P3—both eyes open. Depress Special Leakage/Gas Button in gas test.
12DF5	A4 B5 C3 C8 F1 G6 I6 I10 K8 L4 L6 L10 M2 M10 N3 N9	Test P1 and P2. Reject if below 2.
12DJ8	A4 B5 B9 C3 C8 D2 D7 F1 G6 I9 I10 J1 K1 L1 L6 L7 M2 M10 N3 N9	Test P1 and P2. Special Leakage Test.
12DK6	A3 B4 C2 C7 D1 E6 G5 I7 I10 J1 K7 L1 L6 L8 M2 M10 N4 N9	
12DM4	A7 B8 C3 G5 I6 I10 K6 L4 L6 L10 M2 M10 N4 N9	Reject if below 4.
12DM5	A3 B4 C1 D2 E6 G7 I6 I10 J9 K2 L1 L6 L7 M2 M10 N3 N9	
12DQ4	Use 12AX4 Data.	
12FV7	A4 A5 B9 C3 C8 D2 D7 F1 G6 I6 I10 J4 K6 L1 L6 L8 M3 M10 N1 N9	Test P1 and P2.
12FX5	A3 B4 C1 D2 D5 E6 G7 I7 I10 J1 K5 K7 L1 L6 L8 M2 M10 N4 N9	
12GN7	A4 A5 B6 C1 D2 E8 G7 I7 I10 J1 K3 L1 L6 L8 M3 M10 N1 N9	
12HU8	A4 B5 C7 D2 D6 E1 E9 F8 G3 I8 I10 J1 K5 K7 L1 L6 L7 M2 M10 N4 N9	Test P1 and P2.
12JN8 Triode Unit	A4 B5 B8 C3 D1 G2 I6 I10 J2 K2 L1 L6 L7 M2 M10 N4 N9	
12JN8 Pentode Unit	A4 B5 C8 D9 E7 G6 I6 I10 J2 K3 K4 L1 L6 L7 M2 M10 N4 N9	
12KL8 Diode Unit	A4 B5 B9 C3 G8 K3 I4 M2 M10 N3 N9	Reject if below 1.0.
12KL8 Pentode Unit	A4 B1 B5 B9 C3 D2 E6 G7 I8 I10 J1 K7 L1 L6 L7 M2 M10 N3 N9	
12L8	A6 B7 C2 D1 D3 E5 F4 G8 I6 I10 J6 K3 L1 M2 M10 N3 N9	Test P1 and P2.
13CW4	A3 B1 B5 C2 D6 G4 I6 I8 J1 K1 K2 L1 L6 L7 M1 M10 N3 N9	Use WG-340A Adaptor.
13D1	Use 1633 Data.	
13EC7	A4 B5 C1 C3 C6 C9 D2 E8 G7 I6 I10 J3 K6 L1 L6 L7 M2 M10 N4 N9	
13FR7 Triode Unit 1	A4 B5 C8 D7 G6 I6 I10 J2 K6 K7 L1 M1 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
13FR7 Triode Unit 2	A4 B5 C9 D2 D3 G1 I6 I10 J10 K4 L1 L6 L7 M1 M10 N3 N9	
13GB5	A4 B5 C3 C8 D1 D2 E6 E7 G10 I6 I10 J10 K6 K7 L1 L6 L8 M2 M10 N5 N9	
13GC8 Triode Unit	A4 B5 B6 C3 D2 G1 I6 I10 J5 K6 K7 L1 L6 L7 M2 M10 N4 N9	
13GC8 Tetrode Unit	A4 B5 C7 D9 E8 G6 I6 I10 J7 K2 L1 L6 L7 M2 M10 N4 N9	
14GT8 Triode Unit	A4 B5 C7 D8 G9 J2 K9 L1 M2 M10 N5 N9	Depress Special Leakage/Gas Button in gas test.
14GT8 Diode Unit	A4 B5 C1 C3 F6 G2 K1 L3 M2 M10 N5 N9	Test P1 and P2. Reject if below 3.
14JG8 Triode Unit	A4 B5 C7 D8 G9 I6 I10 J2 K6 K8 L1 M1 M10 N4 N9	Depress Special Leakage/Gas Button in gas test.
14JG8 Diode Unit	A4 B5 C1 C3 F6 G2 I6 I10 K3 K4 L3 L6 L7 M1 M10 N4 N9	Test P1 and P2. Reject if below 3.
15EA7 Triode Unit 1	A7 B8 C6 D4 G5 J2 K10 L1 L6 L7 M1 M10 N5 N9	Depress Special Leakage/Gas Button in gas test.
15EA7 Triode Unit 2	A7 B8 C3 D1 G2 J8 K6 L1 L6 L7 M1 M10 N5 N9	
15EW7 Triode Unit 1	A4 B5 C8 D7 G6 I6 I10 J7 K10 L1 L6 L7 M5 M9 N1 N8	
15EW7 Triode Unit 2	A4 B5 C9 D2 G1 I6 I10 J10 K3 L1 L6 L7 M5 M9 N1 N8	
15HA6	A4 B3 B5 B9 C1 D2 E6 E8 G7 I7 I10 J1 K5 K6 L1 L6 L8 M4 M9 N1 N8	
15HB6	A4 B3 B5 B9 C1 D2 E8 G7 I6 I9 J1 K3 K4 L1 L6 L8 M5 M9 N1 N8	
16AQ3	A4 B5 C10 G3 G8 G9 K2 K3 L4 L6 L9 M4 M9 N2 N8	Reject if below 4.
16GK6	A4 B3 B5 B9 C1 D2 E8 G7 I6 I10 J5 K6 K7 L1 L6 L8 M4 M9 N1 N8	
16GK8 Triode Unit	A4 B2 B5 C8 D1 G9 I6 I10 J5 K6 L1 L6 L7 M5 M9 N2 N8	
16GK8 Tetrode Unit	A4 B5 C2 D3 E7 G6 I6 I10 J6 K5 K7 L1 L6 L8 M5 M9 N2 N8	
17A8 Pentode Unit	A4 B1 B5 C7 D2 E3 G6 I6 I10 J3 K5 L1 L6 L7 M4 M10 N2 N8	
17A8 Triode Unit	A4 B5 B7 C8 D9 G1 I6 I10 J4 K5 K6 L1 L6 L7 M4 M10 N2 N8	
17BR3	A4 B5 C10 G9 K8 L4 L6 L10 M3 M9 N2 N8	Reject if below 4.
17DM4	A7 B8 C3 G5 I6 I10 K6 L4 L6 L10 M3 M9 N2 N8	Reject if below 4.
17DQ4	Use 17AX4 Data.	
17HC8 Pentode Unit	A4 B5 C2 D3 E7 G6 I6 I10 J9 K7 L1 L6 L7 M3 M9 N2 N8	
17HC8 Triode Unit	A4 B2 B5 C8 D1 G9 I6 I10 J3 K5 K6 L1 M3 M9 N2 N8	Reject if below 3. Depress Special Leakage/Gas Button in gas test.
17JK8 Triode Unit 1	A4 B5 B9 C8 D7 G6 I6 I10 J2 K2 L1 L6 L7 M M9 N2 N8	Depress Special Leakage/Gas Button in gas test.
17JK8 Triode Unit 2	A4 B5 B9 C3 D2 G1 I6 I10 J3 K7 K8 L1 L6 L8 M4 M9 N2 N8	Depress Special Leakage/Gas Button in gas test.
18HB8 Triode Unit	A4 B5 B8 C2 D1 G3 J1 K6 K8 L1 L6 L7 M5 M9 N3 N8	
18HB8 Pentode Unit	A4 B5 C8 D9 E6 G7 I8 I9 J1 K4 K5 L1 L6 L7 M5 M9 N3 N8	
19BR5	A4 B5 C2 D1 E3 E8 E9 G7 I6 I10 J2 K9 L1 M4 M9 N4 N8	P1—Gm test—shadow minimum. P2 or P3—shadow maximum.
19BX6	A4 B5 C1 C3 C6 C9 D2 E8 G7 I6 I10 J2 K2 L1 L6 L7 M5 M9 N5 N8	Depress Special Leakage/Gas Button in gas test.
19BY7	A4 B5 C1 C3 D2 E8 G7 I6 I7 J1 K6 L1 L6 L7 M4 M9 N3 N8	
19CS4	A7 B8 C10 G2 G3 G5 I6 I10 K4 L4 L6 L10 M5 M9 N5 N8	Reject if below 3.

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
19EW7 Triode Unit 1	A4 B5 C8 D7 G6 I6 I10 J7 K10 L1 L6 L7 M4 M9 N3 N8	
19EW7 Triode Unit 2	A4 B5 C9 D2 G1 I6 I10 J10 K3 L1 L6 L7 M4 M9 N3 N8	
19FL8 Pentode Unit	A4 B5 B9 C3 D2 E1 G6 I6 I10 J4 K6 K7 L1 L6 L7 M4 M9 N3 N8	
19FL8 Diode Unit	A4 B5 C3 F7 G8 I6 I10 K2 L4 M4 M9 N3 N8	Test P1 and P2. Reject if below 4.
19GQ7	A4 B5 C1 C7 C9 F6 G8 H2 I6 I10 K7 L3 L6 L8 M2 M9 N1 N8	Test P1, P2 and P3. Reject if below 4.
19HR6	A3 B2 B4 C7 D1 E6 G5 I7 I10 J1 K2 K3 L1 L6 L7 M2 M9 N1 N8	
19KGB Pentode Unit	A4 B5 C8 D9 E7 G6 I6 I10 J2 K2 K3 L1 L6 L7 M4 M9 N3 N8	
19KG8 Triode Unit	A4 B5 B8 C3 D2 G1 I6 I10 J2 K2 L1 L6 L7 M4 M9 N3 N8	
19JN8 Triode Unit	A4 B5 B8 C3 D1 G2 I6 I10 J2 K2 K3 L1 L6 L7 M2 M9 N1 N8	
19JN8 Pentode Unit	A4 B5 C8 D9 E7 G6 I6 I10 J2 K3 L1 L6 L7 M2 M9 N1 N8	
19HR6	A3 B2 B4 C7 D1 E6 G5 I7 I10 J1 K2 K3 L1 L6 L7 M4 M9 N3 N8	
19HS6	A3 B2 B4 C7 D1 E6 G5 I8 I10 J1 K2 K3 L1 L6 L7 M2 M9 N1 N8	
19HV8 Triode Unit	A4 B5 C3 D1 G2 I6 I10 J2 K8 L1 M2 M9 N1 N8	Depress Special Leakage/Gas Button in gas test.
19HV8 Pentode Unit	A4 B5 C8 D9 E7 G6 I6 I10 J2 K4 L1 L6 L7 M2 M9 N1 N8	
19U5	A1 B6 C5 D3 E4 G2 I6 I10 J3 K10 L1 M4 M9 N3 N8	P1—Gm test—shadow minimum. P2—shadow maximum.
20EW7 Triode Unit 1	A4 B5 C8 D7 G6 I6 I10 J7 K10 L1 L6 L7 M3 M9 N4 N8	
20EW7 Triode Unit 2	A4 B5 C9 D2 G1 I6 I10 J10 K3 L1 L6 L7 M3 M9 N4 N8	
25BR3	A4 B5 C10 G9 K8 L4 L6 L10 M5 M10 N1 N8	Reject if below 4.
25DK4	A3 B4 C7 G5 I6 I10 K5 L4 L6 L10 M1 M9 N5 N8	Reject if below 4.
25FG6	A2 B7 C8 D5 E4 G10 I7 I10 J10 K3 L1 L6 L7 M4 M10 N1 N8	
35FN5	A2 B7 C3 C6 D4 D5 E1 E8 G10 I7 I10 J1 K5 K7 L1 L6 L8 M5 M8 N1 N7	
26AQ8	A4 B5 C3 C8 D2 D7 F1 G6 I6 I7 J1 K5 L1 L6 L7 M5 M10 N2 N8	Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
26BK6 Diode Unit	A3 B4 C2 F5 G6 I6 I10 K7 L4 L6 L7 M3 M10 N1 N8	Test P1 and P2. Reject if below 4.
26BK6 Triode Unit	A3 B4 C2 D1 G7 I6 I10 J2 K8 L1 M3 M10 N1 N8	Depress Special Leakage/Gas Button in gas test.
28AK8 Triode Unit	A4 B5 C7 D8 G9 J2 K7 K8 L1 M3 M10 N2 N8	Depress Special Leakage/Gas Button in gas test.
28AK8 Diode Unit 1	A4 B5 C3 C7 G6 I6 I10 K8 L3 M3 M10 N2 N8	Test P1 only. Reject if below 1.
28AK8 Diode Unit 2	A4 B5 C3 C7 F2 H1 I6 I10 K7 L3 L6 L8 M3 M10 N2 N8	Test P2 and P3 only. Reject if below 3.
28HA6	A4 B3 B5 B9 C1 D2 E6 E8 G7 I7 I10 J1 K5 K6 L1 L6 L8 M2 M10 N1 N8	
30AE3	A4 B5 C10 G3 G8 G9 K2 K3 L4 L6 L9 M5 M10 N5 N8	Reject if below 4.

TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
30C1	Use 9A8 Data.	
30CW5	A4 B5 C3 D2 E9 G7 I6 I10 J9 K6 L1 L6 L8 M5 M10 N5 N8	
30P5	Use 7ED7 Data.	
34R3	A4 B5 C10 G2 G9 I6 I10 K6 L4 L6 L10 M1 M10 N4 N8	Reject if below 4.
35HB8 Triode Unit	A4 B5 B8 C2 D1 G3 J1 K6 K8 L1 L6 L7 M5 M8 N1 N7	
35HB8 Pentode Unit	A4 B5 C8 D9 E6 G7 I8 I9 J1 K4 K5 L1 L6 L7 M5 M8 N1 N7	
36	A1 B5 C4 D10 E3 G2 I6 I10 J6 K8 K9 K10 L1 M5 M10 N2 N9	Use WG-337A-5 Adaptor.
37	A1 B5 C4 D3 G2 I6 I10 J8 K7 K8 L1 M5 M10 N2 N9	Use WG-337A-5 Adaptor.
38	A1 B5 C4 D10 E3 G2 I6 I10 J10 K8 K9 L1 M5 M10 N2 N9	Use WG-337A-5 Adaptor.
40FR5	A3 B4 C1 D2 D5 E6 G7 I6 I10 J9 K8 L1 L6 L8 M5 M8 N5 N7	
50E5	A2 B7 C8 D5 E4 G10 I6 I10 J10 K7 L1 L6 L7 M5 M7 N5 N6	
50FA5	A3 B4 C1 D2 D5 E6 G7 I6 I10 J9 K4 L1 L6 L7 M5 M7 N5 N6	
50FK5	A3 B4 C1 D2 D5 E6 G7 I7 I10 J1 K6 K7 L1 L6 L8 M5 M7 N5 N6	
50HC6	A3 B4 C1 D2 E5 G7 I7 I10 J1 K6 L1 L6 L8 M5 M7 N5 N6	
50HK6	A3 B4 C1 D2 E5 G7 I6 I10 J9 K1 L1 L6 L7 M5 M7 N5 N6	
55 Triode Unit	A1 B6 C5 D10 G2 I6 I10 J9 K7 K9 L1 M4 M6 N2 N6	Use WG-337A-6 Adaptor.
55 Diode Unit	A1 B6 C5 F3 G4 K1 L4 M4 M6 N2 N6	Use WG-337A-6 Adaptor. Test P1 and P2. Reject if below 3.
57	A1 B6 C4 C5 D10 E3 G2 I6 I10 J6 K8 L1 M4 M6 N2 N6	Use WG-337A-6 Adaptor.
59	A1 B7 C5 C6 D4 E3 G2 I6 I10 J9 K4 L1 M4 M6 N2 N6	Use WG-337A-7 Adaptor.
60FX5	A3 B4 C1 D2 D5 E6 G7 I7 I10 J1 K6 L1 L6 L8 M5 M9 N5 N7	
63T1	Use 6AB8 Data.	
77	A1 B4 B6 C5 D10 E3 G2 I6 I10 J6 K6 K9 L1 M5 M10 N2 N9	Use WG-337A-6 Adaptor.
79	A1 B6 C4 D3 D10 F2 G5 I6 I10 J1 K6 K7 L1 M5 M10 N2 N9	Test P1 and P2. Use WG-337A-6 Adaptor.
81	A1 B4 G2 K2 L5 L6 L9 M3 M10 N2 N9	Use WG-337A-5 Adaptor. Reject if below 3.
89	A1 B6 C4 C5 D10 E3 G2 I6 I10 J8 K4 K5 L1 M5 M10 N2 N9	Use WG-337A-6 Adaptor.
90C1	A8 G1 G5 K5 L1 L6 L8 M5 M10 N5 N8	Use WG-324A Adaptor.
150B2	Use DA2 Data.	
350B	A2 B7 C8 D5 E4 G3 I6 I10 J8 K3 K4 L1 L6 L7 M3 M10 N1 N9	
407A	A1 A9 B5 C2 C8 D3 D7 F4 G6 I6 I7 J1 K6 L1 L6 L7 M5 M9 N5 N8	Test P1 and P2.
512AX	A5 B3 D4 G1 G2 J1 K10 L4 M5 M6 N4 N6	Use WG-338A Adaptor. Start red dot end at Pin 1. Calibrate WT-110A to 6. Reject if below 2. Depress Special Leakage/Gas Button in gas test.

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
1619	A2 B7 D5 E4 G3 J1 K6 K7 L1 L6 L8 M4 M6 N2 N6	
1625	A1 B7 C6 D4 E3 G10 I6 I10 J9 K6 L1 L6 L7 M2 M10 N4 N9	Use WG-337A-7 Adaptor.
1626	A2 B7 C8 D5 G3 I6 I10 J9 K5 L1 M2 M10 N3 N9	
5636	A3 B6 C2 C4 C8 D1 E7 G5 I8 I9 J1 K7 K8 L1 L6 L7 M5 M10 N2 N9	Use WG-339A Adaptor.
5755	A4 B5 C2 C7 D3 D6 F1 G8 J1 K9 K10 L1 M2 M10 N3 N9	Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
5840	A3 B6 C2 C4 C8 D1 E7 G5 I8 I9 J1 K6 L1 L6 L7 M5 M10 N2 N9	Use WG-339A Adaptor.
6029	A2 B4 D3 G1 J7 K6 L1 L6 L7 M2 M6 N1 N6	Use WG-338A Adaptor. Red dot at Pin 1.
6042	Use 1633 Card.	
6073	Use OA2 Card.	
6074	Use OB2 Card.	
6082	A7 B8 C3 C6 D1 D4 F2 G5 J1 K1 I5 I6 L9 M1 M9 N5 N8	Test P1 and P2.
6085	A4 B5 B9 C3 C8 D2 D7 F6 G1 I6 I10 J5 K9 L1 L6 L7 M5 M10 N2 N9	Test P1 and P2.
6111	A3 B6 C4 C5 D2 D7 F1 G8 J1 K6 L1 L6 L7 M5 M10 N2 N9	Use WG-339A Adaptor. Test P1 and P2.
6112	A3 B6 C4 C5 D2 D7 F1 G8 J1 K2 L1 M5 M10 N2 N9	Use WG-339A Adaptor. Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
6137	Use 6SK7 Card.	
6216	A4 B5 C3 C8 D2 E7 G1 G6 I6 I10 J6 K5 K6 L1 L6 L8 M3 M10 N1 N9	
6354	Use OA2 Card.	
6485	Use 6AH6 Data.	
6582	Use 6AK5 Data.	
6626	Use OA2 Card.	
6627	Use OB2 Card.	
6688	Use E180F Card.	
6853	Use 5Y3 Data.	
6900	Use 5687 Card.	
7036	Use 6BY6 Card.	
7044	A4 B5 C3 C6 D2 D7 F1 G9 I6 I10 J4 K6 K7 L1 L6 L8 M2 M10 N4 N9	Test P1 and P2.
7054	A4 B5 C1 C3 C9 D2 E8 G7 I7 I9 J1 K6 L1 L6 L8 M2 M10 N4 N9	
7055	A3 B4 C1 C5 C6 F2 G7 I6 I10 K7 L3 L6 L8 M1 M10 N3 N9	Test P1 and P2. Reject if below 4.
7056	A3 B4 C2 C7 D1 E6 G5 I6 I7 J1 K9 L1 L6 L8 M1 M10 N3 N9	
7057	A4 B5 B9 C3 C8 D2 D7 F1 G6 I7 I8 J1 K4 L1 L6 L7 M1 M10 N3 N9	Test P1 and P2. Use Special Leakage Test.
7058	A4 B5 C3 C8 D2 D7 F1 G6 I6 I10 J2 K8 L1 M1 M10 N3 N9	Depress Special Leakage/Gas Button in gas test. Test P1 and P2.
7059 Pentode Unit	A4 B5 C7 D2 E3 G6 I7 I10 J1 K6 L1 L6 L7 M1 M10 N3 N9	
7059 Triode Unit	A4 B5 C8 D9 G1 I7 I10 J1 K3 L1 L6 L7 M1 M10 N3 N9	
7061	A4 B5 C7 D3 D6 E1 E8 G9 I6 I10 J7 K6 K8 L1 L6 L7 M2 M10 N4 N9	
7105	A7 B8 C3 C6 D1 D4 F2 G5 J1 K1 L5 L6 L9 M2 M10 N4 N9	Test P1 and P2.
7119	A4 A5 B8 C3 C6 D2 D7 F9 G1 I6 I10 J4 K5 L1 L6 L8 M5 M10 N2 N9	Test P1 and P2.
7167	A3 B4 C2 C7 D1 E6 G5 I7 I9 J1 K1 L1 L6 L7 M1 M10 N3 N9	
7247 Triode Unit 1	A4 B5 C8 D7 G6 I6 I10 J2 K8 L1 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
7247 Triode Unit 2	A4 B5 C3 D2 G1 I6 I10 J5 K4 L1 M2 M10 N3 N9	
7258 Pentode Unit	A4 B5 C9 D8 E7 G6 I6 I7 J1 K4 L1 L6 L7 M2 M10 N4 N9	
7258 Triode Unit	A4 B5 C3 D2 G1 I6 I10 J6 K3 L1 M2 M10 N4 N9	
7355	A2 B7 C5 D6 E8 G3 I6 I10 J8 K3 K4 L1 L6 L7 M3 M10 N1 N9	
7360	A4 B5 C1 C8 C9 D3 E2 F6 G7 I7 I9 J1 K10 L1 M5 M10 N2 N9	Test P1 and P2. Reject if below 3. Balance between P1 and P2 must be good.
7370	A4 A5 B8 C3 C6 D2 D7 F1 G9 I6 I10 J4 K6 L1 L6 L8 M3 M9 N4 N8	Test P1 and P2.
7382	A3 B4 C2 D1 G7 I6 I10 J2 K8 L1 M2 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
7408	Use 6V6 Card.	
7489	Use 12AU7 Card.	
7492	Use 12AT7 Card.	
7494	Use 12AX7 Card.	
7496	Use 6BA6 Card.	
7551	A4 B5 B7 C1 D2 E3 G6 I6 I10 J7 K5 L1 L6 L7 M2 M10 N4 N9	
7558	A4 B5 B7 C1 D2 E3 G6 I6 I10 J7 K5 L1 L6 L7 M3 M10 N1 N9	
7581	A2 B7 C8 D5 E4 G3 I6 I10 J7 K5 K7 L1 L6 L7 M3 M10 N1 N9	
7587	A1 A3 B5 C2 D6 E4 G10 I6 I8 J1 K4 K5 L1 L6 L7 M5 M10 N2 N9	Use Nuvistor Adaptor WG-340A.
7591	A2 B7 C5 D6 E4 E8 G3 I6 I10 J5 K2 L1 L6 L7 M3 M10 N1 N9	
7631	Use 6AL5 Card.	
7687	Use 7199 Card.	
7701	A4 B5 C1 C3 C8 D2 E7 E9 G6 I7 I9 J1 K1 K2 L1 M1 M10 N3 N9	
7737	A4 B5 C1 C3 C8 D2 E9 G7 I7 I10 J1 K6 L1 L6 L8 M5 M10 N2 N9	
7788	A4 B5 C1 C3 C8 D2 E6 E9 G7 I7 I10 J1 K1 K2 L1 L6 L8 M5 M10 N2 N9	
8032	Use 6883 Data.	
8425	A3 B4 C2 C7 D1 E6 G5 I7 I9 J1 K5 L1 L6 L7 M5 M10 N2 N9	
8426	A3 B4 C2 C7 D1 E6 G5 I7 I9 J1 K5 L1 L6 L7 M2 M10 N3 N9	
8532	Use 6J4 Data.	
8552	Use 6883 Data.	

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
7716 Triode Unit	A4 B5 B6 C1 D2 G3 I6 I10 J2 K3 L1 M1 M10 N3 N9	Depress Special Leakage/Gas Button in gas test.
7716 Pentode Unit	A4 B5 C6 D7 E8 G9 I7 I10 J1 K1 L1 L6 L7 M1 M10 N3 N9	
7721	A4 B5 B8 C1 C3 D2 E9 G7 I7 I10 J1 K3 L1 L6 L8 M5 M10 N2 N9	
7751	A2 B7 C8 D5 E4 G3 I6 I10 J10 K7 L1 L6 L8 M3 M10 N1 N9	
7861	A1 B5 B9 C2 C8 D3 D7 F4 G6 J1 K5 K6 L1 L6 L7 M2 M10 N3 N9	Test P1 and P2.
7898	A4 B5 C3 C8 D2 D7 F1 G6 J1 K6 L1 L6 L7 M2 M10 N4 N9	Test P1 and P2.
7905	A9 B1 B7 D2 E3 E8 G6 J6 K5 K6 L1 L6 L8 M5 M10 N2 N9	
8056	A1 A3 B5 C2 D6 G4 I6 I9 J1 K4 L2 L6 L7 M5 M10 N2 N9	Use WG-340A Adaptor
8058	A3 B5 C2 C4 C6 D1 G10 I7 I10 J1 K1 L1 L6 L7 M5 M10 N2 N9	Use Nuvistor Adaptor WG-340A.
8102 Triode Unit	A4 B5 C7 C8 D9 G1 I6 I10 J2 K2 L1 L6 L7 M2 M10 N5 N9	
8102 Pentode Unit	A4 B5 C7 D2 E3 G6 I6 I10 J2 K2 L1 L6 L7 M2 M10 N5 N9	
8106	A4 B5 C2 C6 C9 D7 E3 E8 G1 I6 I10 J5 K1 K3 L1 L6 L7 M1 M10 N3 N9	
8236	Use 6DQ5 Data.	
8431	A4 B5 B9 C3 C8 D2 D7 F1 G6 I9 I10 J1 K1 L1 L6 L7 M2 M10 N3 N9	Test P1 and P2.
8445 Triode Unit	A4 B5 C8 D9 G1 I6 I9 J1 K1 L1 L6 L7 M4 M10 N2 N9	
8445 Pentode Unit	A4 B5 C7 D2 E3 G6 I6 I10 J2 K3 L1 L6 L7 M4 M10 N2 N9	
8446 Triode Unit	A4 B5 C3 D1 G2 I7 I9 J1 K1 L1 L6 L7 M4 M10 N2 N9	
8446 Pentode Unit	A4 B5 C8 D9 E7 G6 I7 I10 J1 K3 L1 L6 L7 M4 M10 N2 N9	
8447	Use 12BR7 Data.	
8448	Use 12BY7 Data.	
9006	A3 B4 C2 C7 G1 G5 K7 K8 L3 M5 M10 N2 N9	Reject if below 3.

7-PIN NUVISTOR ADAPTOR

A 7-pin Nuvistor adaptor can be constructed using a 7-pin Nuvistor socket and a standard 8-pin octal base. Connect the pins of the Nuvistor socket to the octal base as indicated below:

7-Pin Nuvistor Socket (Pin Number)	CONNECT TO	Octal Base (Pin Number)
1		1
2		3
4		7
6		5
7		6
10		4
12		2
metal case		8

Insert the adaptor into the octal socket of the WT-110A, and insert the Nuvistor into the adaptor. Card punch data for the 7-pin Nuvistor tubes is included in the basic tube list in this Supplement.

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CARD-PUNCH AND INTERCHANGEABILITY DATA FOR FOREIGN TUBE TYPES

TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
A2521	Use 6CR4 Card.	
B719	Use 6AQ8 Card.	
CK573AX	A2 B4 C3 G1 J9 K6 K7 L1 M2 M6 N1 N6	Red mark at Pin 1 end.
D2M9	Use 6AL5 Card.	
D3a	Use 7721 Card.	
DC90	Use 6C4 Card.	
DL193	Use 3V4 Card.	
DY86	Use 1S2 Card.	
E182CC	Use 5687 Card.	
E235L	Use 7751 Card.	
E80CC	Use 6085 Data.	
EBF35 Pentode Unit	A1 B8 C2 C5 C6 C7 D10 E4 G3 I6 I10 J4 K5 L1 M5 M10 N2 N9	
EBF35 Diode Unit	A1 B8 C2 C7 F5 G6 K7 K8 L3 M5 M10 N2 N9	Test P1 and P2. Reject if below 3.
EC83	Use 6CM Card.	
EC88	Use 6DL4 Data.	
ECC230	Use 6AS7 Card.	
ECC40	A1 B8 C4 C7 D3 D6 F2 G5 I6 I10 J4 K2 K3 L1 M5 M10 N2 N9	Test P1 and P2. Use Special Adaptor.
ECF80	Use 6BL8 Card.	
ECF86	Use 6HG8 Cards.	
ECL84	Use 6DX8 Card.	
ECL86	Use 6GW8 Card.	
EF42	A1 B3 B4 B8 C7 D6 E5 G2 J2 K2 K3 L1 M5 M10 N2 N9	Use Special Adaptor. Depress Special Leakage/Gas Button in gas test.
EF37A	A2 B5 B7 C8 D10 E4 G3 I6 I10 J4 K4 K5 L1 M5 M10 N2 N9	
EF97	Use 6ES6 Card.	
EF98	Use 6ET6 Card.	
EF183	Use 6EH7 Card.	
EF184	Use 6EJ7 Card.	
EF861	Use E180F Card.	
EF905	Use 6AK5 Card.	
EH90	Use 6CS6 Card.	
EL41	A1 B8 C3 C7 D6 E5 G2 I6 I10 J5 K1 K4 L1 L6 L7 M5 M10 N2 N9	Use Special Adaptor.
EL83	Use 6CK6 Card.	
EL84	Use 6BQ5 Card.	
EL500	Use 6CB5 Card.	
EL803	Use 6CK6 Card.	
ELL80	Use 6HU8 Data.	
EM80	Use 6BR5 Card.	
EM81	Use 6DA5 Card.	
EM87	Use 6HU6 Data.	
EQ80	Use 6BE7 Card.	
EY82	A4 B5 C3 G9 K6 K8 L4 L6 L10 M5 M10 N2 N9	Reject if below 3.
EY83	Use 6S2 Card.	
EY87	Use 6S2 Card.	
EY88	Use 6AL3 Card.	
HD51	Use OA2 Card.	
HD52	Use OB2 Card.	
HM34	Use 12CD7 Card.	
LN152	Use 6AB8 Card.	
LM152	Use 6AB8 Card.	
LZ319	Use 9A8 Card.	
N153	Use 15A6 Card.	
N154	Use 16A5 Card.	
N329	Use 16A5 Card.	
N709	Use 6BQ5 Card.	
PC86	Use 4CM4 Card.	
PCC89	Use 7FC7 Card.	
PCF80	Use 9A8 Card.	
PCF86	Use 7HG8 Cards.	
PLL80	Use 12HU8 Data.	
PM04	Use 6BA6 Card.	
PM05	Use 6AK5 Card.	
PY83	Use 17Z3 Card.	
PY86	Use 1S2 Card.	
QS150/40	Use OD3 Card.	
QS1207	Use OA2 Card.	
QS1208	Use OB2 Card.	
QV03-12	Use 5763 Card.	
R12A	Use 6X2 Card.	
SP6	Use 6AM6 Card.	
SU61	Use 6X2 Card.	
T2M05	Use 6J6 Card.	
U43	Use 6X2 Card.	
U78	Use 6X4 Card.	
U152	Use 19X3 Card.	
U153	Use 17Z3 Card.	
U154	Use 19Y3 Card.	
U709	Use 6CA4 Card.	
UAA91	Use 12AL5 Card.	
UABC80	Use 28AK8 Card.	
UB91	Use 12AL5 Card.	
UBC41	Use 14L7 Card.	
UBC81 Triode Unit	A4 B5 C3 D2 G1 I6 I10 J2 K6 K7 L1 M2 M10 N5 N9	Depress Special Leakage/Gas Button for gas test.
UBC81 Diode Unit	A4 B5 C3 F8 G6 K3 L4 M2 M10 N5 N9	Test P1 and P2. Reject if below 3.
UBF89	Use 19FL8 Card.	
UC92	Use 9AB4 Card.	
UCC85	Use 26AQ8 Card.	
UCH81	Use 19AJ8 Card.	
UCL80 Triode Unit	A4 B5 C8 D9 G1 I6 I10 J4 K5 L1 L6 L7 M4 M10 N2 N8	
UCL80 Pentode Unit	A4 B5 C7 D2 E3 G6 I6 I10 J2 K4 L1 L6 L7 M4 M10 N2 N8	
UF40	A1 B8 C4 C7 D5 E6 G2 J4 K7 K8 L1 M2 M10 N4 N9	Use Special Adaptor.
UF80	Use 19BX6 Card.	
UF85	Use 19BY7 Card.	
UM35	Use 19U5 Card.	
UM80	Use 19BR5 Card.	
UU12	Use 6CA4 Card.	
V2M70	Use 6X4 Card.	
V884	Use 6CQ6 Card.	
W77	Use 6CQ6 Card.	
W719	Use 6BY7 Card.	
WD709	Use 6N8 Card.	
X17	Use 1R5 Card.	
X719	Use 6AJ8 Card.	
Z77	Use 6AM6 Card.	
Z152	Use 6BX6 Card.	
ZD152	Use 6N8 Card.	
4R-HH8	Use 4KN8 Data.	
6R-HH8	Use 6KN8 Data.	

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Testing Novar (large 9-pin) Tubes, 10-Pin Tubes, and 12-Pin Integral All-Glass Base (Compactron) Tubes with the RCA WT-110A

The WT-110A *Automatic* Electron Tube Tester can be used to test the new Novar, 10-pin, and 12-pin integral-base tube-types. To test these tubes, a special adaptor must be constructed which contains the tube sockets and necessary switching arrangement. This adaptor is connected directly to the WT-110A through the 9-pin socket and top-cap socket of the tester.

If desired, the adaptor can be constructed with only one or two of the three types of tube sockets. Follow the same wiring arrangement shown in the schematic for the connection of the individual sockets to the tester. The switch shown in the schematic is necessary only if the 12-pin integral-base socket is used.

MATERIAL REQUIRED

Quantity	Description
1	Novar (large 9-pin) socket, Cinch #149-19-10-038 or equivalent.
1	10-pin socket, Sylvania #7460-0035, Methode SG-640-10, or equivalent.
1	12-pin socket, Cinch #149-10-30-025 or equivalent.
1	9-pin plug, Vector P9D, or equivalent.
1	3" x 4" x 5" metal box, Premier AMC-1005, or equivalent.
1	8-pole, 5-position, non-shorting switch, Centralab PA-1027, or equivalent.
31	Ferrite Sleeves, RCA Replacement Parts Stock #209846. (Order from any RCA Electronic Instrument Distributor.)
4	#4-40 x ¼" machine screws.
4	#4-40 nuts.
2	#2-56 x ¼" machine screws.
2	#2-56 nuts.
2 ft.	10-wire conductor cable, #22, solid.
6 ft.	Insulated hookup wire, #22, solid.
1	Rubber insulating grommet, ¼" I.D.
1	Top-cap from discarded vacuum tube.

CONSTRUCTION

Refer to the parts layout shown in the photograph, Figure 1, and the wiring as shown in the schematic diagram, Figure 2.

It is important that the ferrite sleeves be placed over the ends of all wires that connect to the socket pins, as shown in the schematic diagram. Insulation must be removed from the ends of the wires so that the ferrite sleeves can be slipped over the bare wire close to the socket connection.

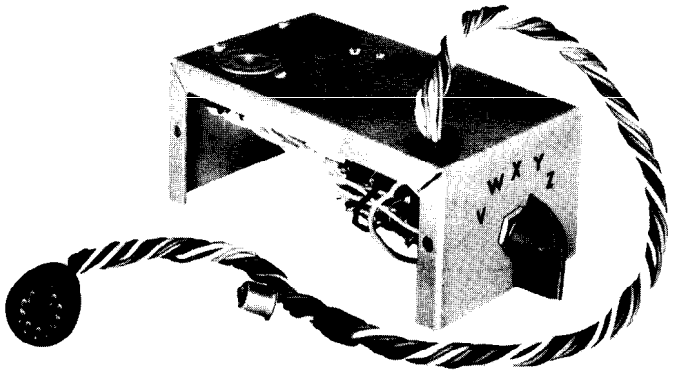

Figure 1

Note: The wires must be positioned so that contact is not made between adjacent sleeves. If these sleeves should touch each other, errors in measurement may occur.

Wiring Procedure:

Note: Use only rosin-core solder in the construction of this adaptor.

Connect the wires of the 10-wire cable from the top cap and pins 2 through 8 of the 9-pin plug to the switch lugs as indicated in the schematic, Figure 2. Use hookup wire between these connections and the pins of the 10-pin socket, then to the corresponding pins of the Novar socket. Be sure to install the ferrite sleeves on all connections to the tube sockets.

Connect the wires from pins 1 and 9 of the 9-pin plug to pins 1 and 12 respectively of the 12-pin socket. Connect hookup wire between these two pins and pins 1 and 9 of the Novar and 10-pin sockets as shown in Figure 2. (Use ferrite sleeves on all of these wires.)

Wire the switch and 12-pin socket as shown in the schematic diagram, again placing a ferrite sleeve on each wire at the connection to the socket.

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Continuity Check:

When the adaptor is completed, the switching circuit can be checked by connecting an ohmmeter between the pins of the 9-pin plug and the pins of the 12-pin socket. The following table shows the 9-pin plug and the 12-pin socket connections which should indicate continuity on each of the five switch positions. Continuity between pins not listed in the table indicates an error in wiring.

9-Pin Plug	Switch Position				
Pin #	V	W	X	Y	Z
1	1	1	1	1	1
2	2	2	2	3	4
3	3	3	3	4	5
4	4	4	4	5	6
5	5	5	5	6	7
6	6	6	8	7	8
7	7	7	9	8	9
8	8	8	10	9	10
9	12	12	12	12	12
Top Cap	11	9	11	10	11

OPERATION

To use the adaptor, insert the 9-pin plug into the 9-pin socket of the WT-110A, and connect the top cap to the top-cap socket of the tester.

Before inserting any tube into the 12-pin socket, the switch on the adaptor must be in the position indicated in the testing data (V, W, X, Y, or Z). Failure to place the switch in the proper position may burn out the tube or damage the tester.

CAUTION: Do not pull the Power Lever of the tester forward to the "Power On" position until the adaptor has been completely connected.

When testing Novar (large 9-pin) tubes or 10-pin tubes, no switching of the adaptor is necessary because the switch does not affect the circuit connected to these tube sockets.

When the adaptor is connected to the WT-110A as described above, the tube to be tested is inserted in the appropriate socket of the adaptor, and the same testing procedure is used as with conventional tube-types.

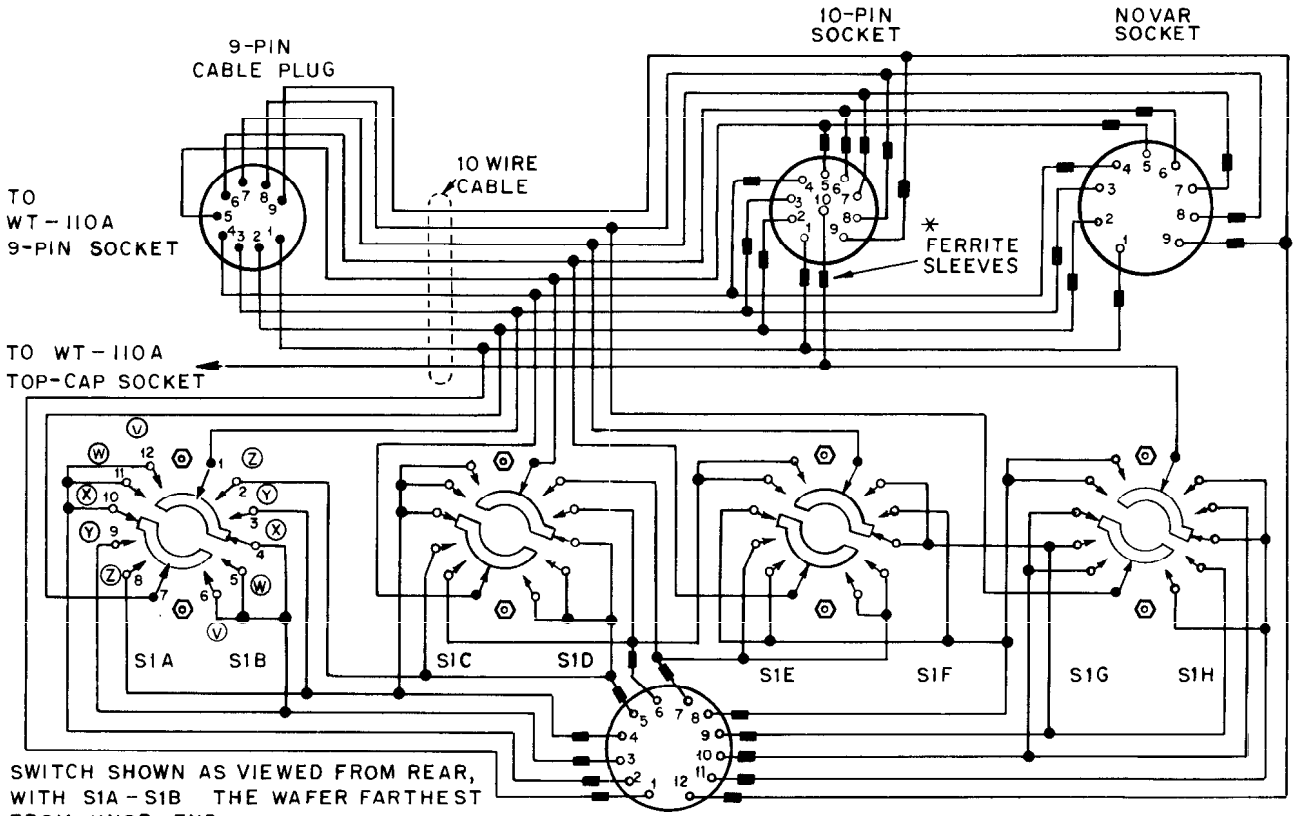

Figure 2

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TESTING INFORMATION FOR
9-PIN NOVAR, 10-PIN, AND 12-PIN TUBE-TYPES
(Using Adaptor Described on Pages 8 and 9)

TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
1AD2	A1 B9 G10 K9 L5 M2 M6 N1 N6	Use Compactron Adaptor on any position. Connect cap lead of tester to tube cap rather than to Adaptor. Reject if below 1.0.
1AJ2	A1 B9 G10 K7 K9 L5 M2 M6 N1 N6	Use Compactron Adaptor on Position Y. Connect cap lead of tester to tube cap rather than to Adaptor. Reject if below 3.
2AH2	A9 B1 G10 K5 K6 L5 M3 M6 N2 N6	Use Compactron Adaptor on Position X. Connect cap lead of tester to tube cap rather than to Adaptor. Reject if below 3.
2AS2	A9 B1 G10 K6 L5 M3 M6 N2 N6	Use Compactron Adaptor on any position. Connect cap lead to cap of tube. Reject if below 2.
3AT2	A9 B1 G10 K7 L5 M4 M6 N2 N6	Use Compactron Adaptor on any position. Connect cap lead to cap of tube. Reject if below 3.
4HA7 Triode Unit 1	A1 B6 B9 C4 D7 G8 I6 I10 J7 K7 K8 L1 M4 M6 N1 N6	Use Compactron Adaptor on Position X.
4HA7 Triode Unit 2	A1 B6 B9 C3 D10 G2 I6 I10 J2 K7 K9 L1 M4 M6 N1 N6	Use Compactron Adaptor on Position X. Depress Special Leakage/Gas Button in gas test.
4HC7 Triode Unit 1	A1 B9 C2 D7 G8 I6 I10 J2 K7 K8 L1 L6 L7 M4 M6 N1 N6	Use Compactron Adaptor on Position Z. Depress Special Leakage/Gas Button in gas test.
4HC7 Triode Unit 2	A1 B9 C3 D10 G2 I6 I10 J2 K7 K9 L1 M4 M6 N1 N6	Use Compactron Adaptor on Position X. Depress Special Leakage/Gas Button in gas test.
5AZ3	A1 B9 F3 G7 K1 L5 L6 L10 M5 M10 N2 N9	Test P1 and P2. Reject if below 4. Use Compactron Adaptor on Position V.
5BC3	A1 B3 F5 G9 K1 L5 L6 L10 M4 M10 N2 N9	Use Novar Adaptor. Test P1 and P2.
5HA7 Triode Unit 1	A1 B6 B9 C4 D7 G8 I6 I10 J7 K7 K8 L1 M4 M10 N1 N9	Use Compactron Adaptor on Position X.
5HA7 Triode Unit 2	A1 B6 B9 C3 D10 G2 I6 I10 J2 K7 K9 L1 M4 M10 N1 N9	Use Compactron Adaptor on Position X. Depress Special Leakage/Gas Button in gas test.
5HC7 Triode Unit 1	A1 B9 C2 D7 G8 I6 I10 J2 K7 K8 L1 L6 L7 M4 M10 N1 N9	Use Compactron Adaptor on Position Z. Depress Special Leakage/Gas Button in gas test.
5HC7 Triode Unit 2	A1 B9 C3 D10 G2 I6 I10 J2 K7 K9 L1 M4 M10 N1 N9	Use Compactron Adaptor on Position X. Depress Special Leakage/Gas Button in gas test.
6AF11 Triode Unit 1	A1 B9 C5 D6 G8 I6 I10 J2 K6 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position W. Depress Special Leakage/Gas Button on gas test.
6AF11 Triode Unit 2	A1 B9 C7 D3 G4 I7 I10 J1 K7 K8 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position W.
6AF11 Pentode Unit	A1 B9 C7 D10 E8 G2 I7 I10 J1 K6 K7 L1 L6 L8 M3 M10 N1 N9	Use Compactron Adaptor on Position X.
6AG11 Diode Unit	A1 B9 C2 C10 F3 G8 I6 I10 K2 L3 M5 M10 N2 N9	Use Compactron Adaptor on Position X. Test P1 and P2. Reject if below 2.
6AG11 Triode Unit	A1 B9 C4 C10 D5 D8 F6 G7 I6 I10 J2 K5 L1 L6 L7 M5 M10 N2 N9	Use Compactron Adaptor on Position W. Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
6AL11 Pentode Unit 1	A1 B3 B9 C7 D6 E8 G10 I6 I10 J5 K4 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position Z.
6AL11 Pentode Unit 2	A1 B4 B5 B9 C2 D3 E7 G6 J3 K9 L1 M3 M10 N1 N9	Use Compactron Adaptor on Position W. Reject if below 3.
6AR11 Pentode Unit 1	A1 B5 B9 C10 D8 E7 G6 I7 I10 J1 K3 K4 L1 L6 L7 M5 M10 N2 N9	Use Compactron Adaptor on Position Z. Depress Special Leakage/Gas Button in gas test.
6AR11 Pentode Unit 2	A1 B4 B9 C6 D5 E3 G2 I7 I10 J1 K3 K4 L1 L6 L7 M5 M10 N2 N9	Use Compactron Adaptor on Position V. Depress Special Leakage/Gas Button in gas test.
6AS11 Triode Unit	A1 B2 B9 B10 C5 C7 D3 D6 F4 G8 I7 I9 J1 K5 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position W. Test P1 and P2. Reject if P2 is below 2.
6AS11 Pentode Unit	A1 B9 C7 D10 E4 E8 G2 I7 I10 J1 K2 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position X.
6AV11 Triode Unit 1 and 3	A1 B6 B9 C3 C4 D7 D10 F2 G8 I6 I10 J5 K9 L1 L6 L7 M5 M10 N2 N9	Use Compactron Adaptor on Position X. Test P1 and P2.
6AV11 Triode Unit 2	A1 B9 C6 D7 G5 I6 I10 J5 K9 L1 L6 L7 M5 M10 N2 N9	Use Compactron Adaptor on Position V. Test P1 Only.
6AX3	A1 B9 C6 G3 G10 I6 I10 K1 L4 L6 L9 M4 M10 N2 N9	Use Compactron Adaptor on Position Y. Reject if below 4.

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
6AY3	A4 B5 C9 G2 G7 I6 I10 K7 L4 L6 L10 M4 M10 N2 N9	Use Novar Adaptor. Reject if below 4.
6AY11 Triode Units	A1 B9 C4 C10 D5 D8 F6 G7 I6 I10 J2 K6 K7 L1 M5 M10 N2 N9	Use Compactron Adaptor on Position W. Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
6AY11 Diode Units	A1 B9 C2 C10 F3 G8 I6 I10 K3 L3 L6 L7 M5 M10 N2 N9	Use Compactron Adaptor on Position X. Test P1 and P2. Reject if below 2.
6B10 Triode Units	A1 B9 C2 C7 D3 D5 F4 G6 I6 I10 J5 K9 L1 L6 L7 M5 M10 N2 N9	Use Compactron Adaptor on Position W. Test P1 and P2.
6B10 Diode Units	A1 B9 C7 F6 G8 I6 I10 K4 K5 L3 L6 L7 M5 M10 N2 N9	Use Compactron Adaptor on Position Z. Test P1 and P2. Reject if below 3.
6BA3	A4 B5 C9 G2 G7 I6 I10 K1 L4 L6 L9 M4 M10 N2 N9	Use Novar Adaptor. Reject if below 3.
6BA11 Pentode Unit	A1 B5 B7 B9 B10 C8 D4 E3 F2 G6 I6 I10 J2 K8 K9 L1 M5 M10 N2 N9	Use Compactron Adaptor on Position V. Test P1 and P2. Reject if below 3.
6BA11 Triode Unit	A1 B9 C8 D7 G10 I6 I10 J7 K7 L1 M5 M10 N2 N9	Use Compactron Adaptor on Position X.
6BD11 Pentode Unit	A1 B9 C7 D10 E8 G2 I7 I9 J1 K1 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position X.
6BD11 Triode Unit 1	A1 B9 C4 D5 G7 I8 I10 J1 K5 K6 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position Y.
6BD11 Triode Unit 2	A1 B9 C6 D2 G3 I8 I10 J1 K6 K8 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position Y.
6BE3	A1 B9 C6 G3 G10 I6 I10 K4 L4 L6 L10 M4 M10 N2 N9	Use Compactron Adaptor on Position Y. Reject if below 4.
6BF11 Pentode Unit 1	A1 B3 B9 C7 D6 E8 G10 I6 I10 J8 K7 K8 L1 L6 L8 M3 M10 N1 N9	Use Compactron Adaptor on Position Z.
6BF11 Pentode Unit 2	A1 B4 B5 B9 C2 D3 E7 G6 J3 K9 L1 M3 M10 N1 N9	Use Compactron Adaptor on Position W. Reject if below 3.
6BH3	A4 B5 C9 G2 G7 I6 I10 K7 L4 L6 L10 M4 M10 N2 N9	Use Novar Adaptor. Reject if below 4.
6BH11 Triode Units	A1 B9 C2 C5 D4 D6 F3 G7 I6 I10 J2 K3 L1 L6 L7 M5 M10 N2 N9	Use Compactron Adaptor on Position V. Test P1 and P2.
6BH11 Pentode Unit	A1 B9 C10 D6 E7 G8 I6 I10 J2 K3 K4 L1 L6 L7 M5 M10 N2 N9	Use Compactron Adaptor on Position Z.
6BJ3	A1 B9 C6 G3 G10 I6 I10 K5 L4 L6 L10 M3 M10 N1 N9	Use Compactron Adaptor on Position Y. Reject if below 3.
6BS3	A4 B5 C9 G2 G7 I6 I10 K1 L3 L6 L7 M4 M10 N2 N9	Use Novar Adaptor. Reject if below 3.
*6C9	A4 B5 C3 C10 D2 D7 D9 F6 G8 H1 I6 I10 J2 K7 L1 L6 L7 M5 M10 N2 N9	Use 10 Pin Adaptor. Test P1, P2 and P3.

* Indicates corrected punch data. Discard any punch information published previously on this tube-type.

TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
6C10 Triode Units 1 and 2	A1 B7 B9 C3 C5 D6 D8 F4 G10 I6 I10 J2 K8 L1 M3 M10 N1 N9	Use Compactron Adaptor on Position Y. Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
6C10 Triode Unit 3	A1 B6 B9 C3 D10 G2 I6 I10 J2 K8 L1 M3 M10 N1 N9	Use Compactron Adaptor on Position X. Test P1 only. Depress Special Leakage/Gas Button in gas test.
6D10 Triode Units 1 and 2	A1 B7 B9 C3 C5 D6 D8 F4 G10 I6 I10 J2 K7 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position Y. Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
6D10 Triode Unit 3	A1 B6 B9 C3 D10 G2 I6 I10 J2 K7 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position X. Test P1 only. Depress Special Leakage/Gas Button in gas test.
6DW4	A4 B5 C9 G2 G7 I6 I10 K4 L4 L6 L10 M4 M10 N2 N9	Use Novar Adaptor.
6FJ7 Triode Unit 1	A1 B9 C7 D8 G10 I6 I10 J5 K4 K5 L1 M3 M10 N1 N9	Use Compactron Adaptor on Position Z.
6FJ7 Triode Unit 2	A1 B9 C7 D3 G5 I6 I10 J6 K5 K6 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position W.
6FM7 Triode Unit 1	A1 B9 C7 D8 G10 I6 I10 J2 K5 K6 L1 M3 M10 N1 N9	Use Compactron Adaptor on Position Z. Depress Special Leakage/Gas Button in gas test.
6FM7 Triode Unit 2	A1 B9 C6 D2 D7 G4 I6 I10 J10 K4 K5 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position Y.
6FY7 Triode Unit 1	A1 B9 C7 D8 G10 I6 I10 J2 K7 L1 M3 M10 N1 N9	Use Compactron Adaptor on Position Z. Depress Special Leakage/Gas Button in gas test.
6FY7 Triode Unit 2	A1 B9 C6 D2 G4 I6 I10 J10 K4 K5 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position Y.
6G11 Pentode Unit 1	A1 B3 B9 C7 D6 E8 G10 I6 I10 J9 K3 K4 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position Z.
6G11 Pentode Unit 2	A1 B5 B9 C2 C4 D3 E7 G6 J1 K8 L1 M3 M10 N1 N9	Use Compactron Adaptor on Position V.
6GA7 Diode Unit	A1 B9 C6 G10 I6 I10 K1 L4 L6 L9 M4 M10 N2 N9	Use Compactron Adaptor on Position Z. Reject if below 3.
6GA7 Pentode Unit	A1 B9 C5 D4 E2 E3 G7 I7 I10 J10 K5 L1 L6 L7 M4 M10 N2 N9	Use Compactron Adaptor on Position V.
6GB5	A4 B5 C3 C8 D1 D2 E6 E7 G10 I6 I10 J10 K6 K7 L1 L6 L8 M4 M10 N2 N9	Use Novar Adaptor.
6GE5	A1 B9 C4 D3 D10 E2 G7 I6 I10 J10 K3 K5 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position V.
6GF5	A1 B9 C4 D3 E2 G7 I6 I10 J10 K3 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position W.
6GF7 Triode Unit 1	A4 B5 C1 D9 G8 I6 I10 J2 K6 K7 L1 M3 M10 N1 N9	Use Novar Adaptor. Depress Special Leakage/Gas Button in gas test.
6GF7 Triode Unit 2	A4 B5 C3 D2 G6 I6 I10 J10 K4 L1 L6 L7 M3 M10 N1 N9	Use Novar Adaptor.

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
6GJ5	A4 B5 C3 D2 D6 E1 E7 G10 I7 I10 J10 K9 L1 L6 L8 M4 M10 N2 N9	Use Novar Adaptor.
6GT5	A4 B5 C3 D2 D6 E1 E7 G9 I6 I10 J10 K3 L1 L6 L7 M4 M10 N2 N9	Use Novar Adaptor.
6GV5	A1 B9 C4 D5 E3 E7 G10 I8 I10 J10 K5 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position W. Connect cap lead to cap of tube.
6GY5	A1 B9 C2 C8 D3 D7 E5 G10 I6 I10 J10 K7 L1 L6 L8 M4 M10 N2 N9	Use Compactron Adaptor on Position Z. Connect cap lead to tube cap.
6HB5	A1 B9 C4 D3 E2 G7 I8 I9 J10 K3 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position W.
6HD5	A1 B9 C4 D3 E5 G7 I7 I9 J10 K2 L1 L6 L7 M4 M10 N2 N9	Use Compactron Adaptor on Position V.
6HE5	A1 B9 C4 C10 D2 E3 G6 I6 I10 J8 K6 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position V.
6HF5	A1 B9 C4 D5 E3 E6 E8 G10 I8 I10 J10 K3 K4 L1 L6 L7 M4 M10 N2 N9	Use Compactron Adaptor on Position W. Connect cap lead to cap of tube.
6HJ5	A1 B4 B9 C2 D3 E5 G7 I7 I9 J10 K2 L1 L6 L7 M4 M10 N2 N9	Use Compactron Adaptor on Position V.
***6J10** Discriminator Pentode Unit	A1 B9 C6 D3 D5 E4 G2 J1 K10 L1 M5 M10 N2 N9	Use Compactron Adaptor on Position Z. Reject if below 2. Ignore gas test.
***6J10** Audio Pentode Unit	A1 B9 C3 D10 E2 G7 I6 I10 J6 K5 L1 L6 L7 M5 M10 N2 N9	Use Compactron Adaptor on Position X.
6J11 Pentode Unit 1	A1 B2 B8 B9 C6 D10 E5 G7 I7 I10 J1 K1 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position Z. Depress Special Leakage/Gas Button in gas test.
6J11 Pentode Unit 2	A1 B4 B9 C6 D5 E2 G3 I7 I10 J1 K1 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position V. Depress Special Leakage/Gas Button in gas test.
6JB6	A4 B5 C3 C8 D2 E1 E7 G10 I7 I10 J10 K9 L1 L6 L8 M4 M10 N2 N9	Use Novar Adaptor.
6JE6	A4 B5 C3 D2 E7 G10 I6 I8 J10 K4 L1 L6 L7 M4 M10 N2 N9	Use Novar Adaptor.
6JM6	A1 B4 B9 C2 D5 E3 G10 I6 I10 J10 K2 L1 L6 L7 M5 M10 N2 N9	Use Compactron Adaptor on Position X. Place cap lead on tube cap.
6JN6	A1 B4 B9 C2 D10 E3 G7 I6 I10 J10 K2 L1 L6 L7 M5 M10 N2 N9	Use Compactron Adaptor on Position V.
6JT6	A4 B5 B6 C3 D2 E1 E7 G9 I6 I9 J10 K4 K5 L1 L6 L7 M3 M10 N1 N9	Use Novar Adaptor.
6JZ8 Triode Unit	A1 B9 C10 D8 G2 I6 I10 J6 K6 L1 M3 M10 N1 N9	Use Compactron Adaptor on Position X.
6JZ8 Pentode Unit	A1 B9 C7 D4 D5 E6 G2 I6 I10 J9 K3 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position Z.
6K11 Triode Unit 1	A1 B7 B9 C3 D8 G10 I6 I10 J6 K5 K6 L1 M3 M10 N1 N9	Use Compactron Adaptor on Position Y.
6K11 Triode Units 2 and 3	A1 B8 B9 C3 C6 D7 D10 F2 G5 I6 I10 J2 K7 K9 L1 M3 M10 N1 N9	Use Compactron Adaptor on Position V. Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
6KY8 Pentode Unit	A4 B5 C3 D2 E7 G6 I6 I10 J9 K1 K2 L1 L6 L7 M5 M10 N2 N9	Use Novar Adaptor.
6KY8 Triode Unit	A4 B5 C1 D9 G8 I6 I10 J2 K8 L1 M5 M10 N2 N9	Use Novar Adaptor. Depress Special Leakage/Gas Button in gas test.
6M11 Triode Units	A1 B9 C4 C10 D5 D8 F6 G7 I6 I10 J2 K5 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position W. Test P1 and P2.
6M11 Pentode Units	A1 B9 C8 D2 E3 G10 I7 I10 J1 K1 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position X.
6Q11 Triode Unit 1	A1 B6 B9 C2 D7 G8 I6 I10 J2 K2 K3 L1 M5 M10 N2 N9	Use Compactron Adaptor on Position Z.
6Q11 Triode Units 2, 3	A1 B8 B9 C3 C6 D7 D10 F2 G5 I6 I10 J2 K7 K9 L1 M5 M10 N2 N9	Use Compactron Adaptor on Position V. Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
6T9 Triode Unit	A1 B6 B9 C5 D4 G2 I6 I10 J2 K6 L1 M5 M10 N2 N9	Use Compactron Adaptor on Position V. Depress Special Leakage/Gas Button in gas test.
6T9 Pentode Unit	A1 B9 C7 D6 E8 G10 I6 I10 J5 K3 L1 L6 L7 M5 M10 N2 N9	Use Compactron Adaptor on Position Z.
6T10 Pentode Unit 1	A1 B9 C7 D6 E8 G10 I6 I10 J5 K3 L1 L6 L7 M3 M10 N1 N9	Use Compactron Adaptor on Position Z.
6T10 Pentode Unit 2	A1 B9 C2 D3 D5 E6 G7 J1 K7 L1 M3 M10 N1 N9	Use Compactron Adaptor on Position V.
6U10 Triode Units 1 and 3	A1 B9 C3 C4 D7 D10 F2 G8 I8 I10 J5 K2 L1 M5 M10 N2 N9	Use Compactron Adaptor on Position X. Test P1 and P2.
6U10 Triode Unit 2	A1 B9 C6 D7 G5 I6 I10 J2 K9 L1 M5 M10 N2 N9	Use Compactron Adaptor on Position V. Test P1 only. Depress Special Leakage/Gas Button in gas test.
8B10 Triode Unit	A1 B9 C2 C7 D3 D5 F4 G6 I6 I10 J5 K9 L1 L6 L7 M5 M10 N3 N9	Use Compactron Adaptor on Position W. Test P1 and P2.
8B10 Diode Unit	A1 B9 C7 F6 G8 I6 I10 K4 K5 L3 L6 L7 M5 M10 N3 N9	Use Compactron Adaptor on Position Z. Test P1 and P2. Reject if below 3.
10AL11 Pentode Unit 1	A1 B3 B9 C7 D6 E8 G10 I6 I10 J5 K4 L1 L6 L7 M5 M10 N5 N9	Use Compactron Adaptor on Position Z.
10AL11 Pentode Unit 2	A1 B4 B5 B9 C2 D3 E7 G6 J3 K9 L1 M5 M10 N5 N9	Use Compactron Adaptor on Position W. Reject if below 3.
10GF7 Triode Unit 1	A4 B5 C1 D9 G8 I6 I10 J2 K6 K7 L1 M5 M10 N5 N9	Use Novar Adaptor. Depress Special Leakage/Gas Button in gas test.
10GF7 Triode Unit 2	A4 B5 C3 D2 G6 I6 I10 J10 K4 L1 L6 L7 M5 M10 N5 N9	

* Indicates corrected punch data. Discard any punch information published previously on this tube-type.

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
11AR11 Pentode Unit 1	A1 B5 B9 C10 D8 E7 G6 I7 I10 J1 K3 K4 L1 L6 L7 M1 M10 N2 N9	Use Compactron Adaptor on Position Z. Depress Special Leakage/Gas Button in gas test.
11AR11 Pentode Unit 2	A1 B4 B9 C6 D5 E3 G2 I7 I10 J1 K3 K4 L1 L6 L7 M1 M10 N2 N9	Use Compactron Adaptor on Position V. Depress Special Leakage/Gas Button in gas test.
12AL11 Pentode Unit 1	A1 B3 B9 C7 D6 E8 G10 I6 I10 J5 K4 L1 L6 L7 M2 M10 N4 N9	Use Compactron Adaptor on Position Z.
12AL11 Pentode Unit 2	A1 B4 B5 B9 C2 D3 E7 G6 J3 K9 L1 M2 M10 N4 N9	Use Compactron Adaptor on Position W. Reject if below 3.
12AX3	A1 B9 C6 G3 G10 I6 I10 K1 L4 L6 L9 M2 M10 N4 N9	Use Compactron Adaptor on Position Y. Reject if below 4.
12AY3	A4 B5 C9 G2 G7 I6 I10 K7 L4 L6 L10 M2 M10 N4 N9	Use Novar Adaptor. Reject if below 4.
12BE3	A1 B9 C6 G3 G10 I6 I10 K4 L4 L6 L10 M2 M10 N4 N9	Use Compactron Adaptor on Position Y. Reject if below 4.
12BS3	A4 B5 C9 G2 G7 I6 I10 K1 L3 L6 L7 M2 M10 N4 N9	Use Novar Adaptor. Reject if below 3.
12BT3	A1 B9 C5 G2 G8 I6 I10 K4 L4 L6 L10 M2 M10 N4 N9	Use Compactron Adaptor on Position Z. Reject if below 3.
12G11 Pentode Unit 1	A1 B3 B9 C7 D6 E8 G10 I6 I10 J9 K3 K4 L1 L6 L7 M2 M10 N4 N9	Use Compactron Adaptor on Position Z.
12G11 Pentode Unit 2	A1 B5 B9 C2 C4 D3 E7 G6 J1 K8 L1 M2 M10 N4 N9	Use Compactron Adaptor on Position V.
12GE5	A1 B9 C4 D3 D10 E2 G7 I6 I10 J10 K3 K5 L1 L6 L7 M2 M10 N4 N9	Use Compactron Adaptor on Position V.
12GJ5	A4 B5 C3 D2 D6 E1 E7 G10 I7 I10 J10 K9 L1 L6 L8 M2 M10 N3 N9	Use Novar Adaptor.
12GT5	A4 B5 C3 D2 D6 E1 E7 G9 I6 I10 J10 K3 L1 L6 L7 M2 M10 N4 N9	Use Novar Adaptor.
12HE7 Diode Unit	A1 B9 C4 G2 I6 I10 K2 K3 L4 L6 L10 M2 M10 N4 N9	Use Compactron Adaptor on Position V. Reject if below 4.
12HE7 Pentode Unit	A1 B9 C6 D7 E10 G3 I6 I10 J10 K6 K7 L1 L6 L8 M2 M10 N4 N9	Use Compactron Adaptor on Position Z.
12JB6	A4 B5 C3 C8 D2 E1 E7 G10 I7 I10 J10 K9 L1 L6 L8 M2 M10 N3 N9	Use Novar Adaptor.
12JN6	A1 B4 B9 C2 D10 E3 G7 I6 I10 J10 K2 L1 L6 L7 M2 M10 N4 N9	Use Compactron Adaptor on Position V.
12JT6	A4 B5 B6 C3 D2 E1 E7 G9 I6 I9 J10 K4 K5 L1 L6 L7 M2 M10 N4 N9	Use Novar Adaptor.
13FM7 Triode Unit 1	A1 B9 C7 D8 G10 I6 I10 J2 K5 K6 L1 M1 M10 N3 N9	Use Compactron Adaptor on Position Z. Depress Special Leakage/Gas Button in gas test.
13FM7 Triode Unit 2	A1 B9 C6 D2 D7 G4 I6 I10 J10 K4 K5 L1 L6 L7 M1 M10 N3 N9	Use Compactron Adaptor on Position Y.
13GF7 Triode Unit 1	A4 B5 C1 D9 G8 I6 I10 J2 K6 K7 L1 M2 M10 N5 N9	Use Novar Adaptor. Depress Special Leakage/Gas Button in gas test.
13GF7 Triode Unit 2	A4 B5 C3 D2 G6 I6 I10 J10 K4 L1 L6 L7 M2 M10 N5 N9	
13J10 Discriminator Pentode Unit	A1 B9 C6 D3 D5 E4 G2 J1 K10 L1 M1 M10 N3 N9	Use Compactron Adaptor on Position Z. Reject if below 2. Ignore gas test.
13J10 Audio Pentode Unit	A1 B9 C3 D10 E2 G7 I6 I10 J6 K5 L1 L6 L7 M1 M10 N3 N9	Use Compactron Adaptor on Position X.
15AF11 Pentode Unit	A1 B9 C7 D10 E8 G2 I7 I10 J1 K6 K7 L1 L6 L8 M1 M10 N5 N9	Use Compactron Adaptor on Position X.
15AF11 Triode Unit 1	A1 B9 C5 D6 G8 I6 I10 J2 K6 L1 L6 L7 M1 M10 N5 N9	Use Compactron Adaptor on Position W. Depress Special Leakage/Gas Button in gas test.
15AF11 Triode Unit 2	A1 B9 C7 D3 G4 I7 I10 J1 K7 K8 L1 L6 L7 M1 M10 N5 N9	Use Compactron Adaptor on Position W.
15BD11 Pentode Unit	A1 B9 C7 D10 E8 G2 I7 I9 J1 K1 L1 L6 L7 M1 M10 N5 N9	Use Compactron Adaptor on Position X.
15BD11 Triode Unit 1	A1 B9 C4 D5 G7 I8 I10 J1 K5 K6 L1 L6 L7 M1 M10 N5 N9	Use Compactron Adaptor on Position Y.
15BD11 Triode Unit 2	A1 B9 C6 D2 G3 I8 I10 J1 K6 K8 L1 L6 L7 M1 M10 N5 N9	Use Compactron Adaptor on Position Y.
15FM7 Triode Unit 1	A1 B9 C7 D8 G10 I6 I10 J2 K5 K6 L1 M5 M9 N1 N8	Use Compactron Adaptor on Position Z. Depress Special Leakage/Gas Button in gas test.
15FM7 Triode Unit 2	A1 B9 C6 D2 D7 G4 I6 I10 J10 K4 K5 L1 L6 L7 M5 M9 N1 N8	Use Compactron Adaptor on Position Y.
15FY7 Triode Unit 1	A1 B9 C7 D8 G10 I6 I10 J2 K7 L1 M5 M9 N1 N8	Use Compactron Adaptor on Position Z. Depress Special Leakage/Gas Button in gas test.
15FY7 Triode Unit 2	A1 B9 C6 D2 G4 I6 I10 J10 K4 L1 L6 L7 M5 M9 N1 N8	Use Compactron Adaptor on Position Y.
15KY8 Pentode Unit	A4 B5 C3 D2 E7 G6 I6 I10 J9 K1 K2 L1 L6 L7 M5 M9 N1 N8	Use Novar Adaptor.
15KY8 Triode Unit	A4 B5 C1 D9 G8 I6 I10 J2 K8 L1 M5 M9 N1 N8	Depress Special Leakage/Gas Button in gas test.
16GY5	A1 B9 C2 C8 D3 D7 E5 G10 I6 I10 J10 K7 L1 L6 L8 M5 M9 N2 N8	Use Compactron Adaptor on Position Z. Connect cap lead to tube cap.
17AX3	A1 B9 C6 G3 G10 I6 I10 K1 L4 L6 L9 M3 M9 N2 N8	Use Compactron Adaptor on Position Y. Reject if below 4.
17AY3	A4 B5 C9 G2 G7 I6 I10 K7 L4 L6 L10 M4 M9 N2 N8	Use Novar Adaptor. Reject if below 4.
17BE3	A1 B9 C6 G3 G10 I6 I10 K4 L4 L6 L10 M3 M9 N2 N8	Use Compactron Adaptor on Position Y. Reject if below 4.
17BF11 Pentode Unit 1	A1 B3 B9 C7 D6 E8 G10 I6 I10 J8 K7 K8 L1 L6 L8 M3 M9 N2 N8	Use Compactron Adaptor on Position Z.
17BF11 Pentode Unit 2	A1 B4 B5 B9 C2 D3 E7 G6 J3 K9 L1 M3 M9 N2 N8	Use Compactron Adaptor on Position W. Reject if below 3.
17BH3	A4 B5 C9 G2 G7 I6 I10 K7 L4 L6 L10 M3 M9 N2 N8	Use Novar Adaptor. Reject if below 4.
17BS3	A4 B5 C9 G2 G7 I6 I10 K1 L3 L6 L7 M3 M9 N2 N8	Use Novar Adaptor. Reject if below 3.
17C9	A4 B5 C6 C10 D1 D7 E2 E8 F3 G9 I6 I10 J5 K6 L1 L6 L7 M4 M9 N2 N8	Use 10-pin Adaptor in any position. Test P1 and P2.

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TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
17GE5	A1 B9 C4 D3 D10 E2 G7 I6 I10 J10 K3 K5 L1 L6 L7 M3 M9 N2 N8	Use Compactron Adaptor on Position V
17GJ5	A4 B5 C3 D2 D6 E1 E7 G10 I7 I10 J10 K9 L1 L6 L8 M3 M9 N2 N8	Use Novar Adaptor.
17GT5	A4 B5 C3 D2 D6 E1 E7 G9 I6 I10 J10 K3 L1 L6 L7 M3 M9 N2 N8	Use Novar Adaptor.
17GV5	A1 B9 C4 D5 E3 E7 G10 I8 I10 J10 K5 L1 L6 L7 M4 M9 N2 N8	Use Compactron Adaptor on Position W. Connect cap lead to cap of tube.
17JB6	A4 B5 C3 C8 D2 E1 E7 G10 I7 I10 J10 K9 L1 L6 L8 M3 M9 N2 N8	Use Novar Adaptor.
17JG6	A4 B5 C3 C6 D2 E1 E7 G9 I8 I10 J10 K8 L1 L6 L8 M3 M9 N2 N8	Use Novar Adaptor.
17JM6	A1 B4 B9 C2 D5 E3 G10 I6 I10 J10 K2 L1 L6 L7 M4 M9 N2 N8	Use Compactron Adaptor on Position X. Place cap lead on tube cap.
17JN6	A1 B4 B9 C2 D10 E3 G7 I6 I10 J10 K2 L1 L6 L7 M4 M9 N2 N8	Use Compactron Adaptor on Position V.
17JT6	A4 B5 B6 C3 D2 E1 E7 G9 I6 I9 J10 K4 K5 L1 L6 L7 M3 M9 N2 N8	Use Novar Adaptor.
17JZ8 Triode Unit	A1 B9 C10 D8 G2 I6 I10 J6 K4 L1 M4 M9 N2 N8	Use Compactron Adaptor on Position X.
17JZ8 Pentode Unit	A1 B9 C10 D6 D7 E8 G4 I6 I10 J9 K2 K3 L1 L6 L7 M4 M9 N2 N8	Use Compactron Adaptor on Position W.
17LD8 Pentode Unit	A4 B5 C3 D2 E7 G6 I6 I10 J9 K1 K2 L1 L6 L7 M4 M9 N2 N8	Use Novar Adaptor.
17LD8 Triode Unit	A4 B5 C1 D9 G8 I6 I10 J2 K8 L1 M4 M9 N2 N8	Use Novar Adaptor. Depress Special Leakage/Gas Button in gas test.
18GB5	A4 B5 C3 C8 D1 D2 E6 E7 G10 I6 I10 J10 K6 K7 L1 L6 L8 M5 M9 N3 N8	Use Novar Adaptor.
21GY5	A1 B9 C4 C8 D5 D7 E3 G10 J10 K9 L1 L6 L8 M2 M9 N3 N8	Use Compactron Adaptor on Position X. Connect cap lead of tester to tube cap rather than to adaptor
21HB5	A1 B9 C4 D3 E2 G7 I8 I9 J10 K3 L1 L6 L7 M2 M9 N3 N8	Use Compactron Adaptor on Position W.
21HD5	A1 B9 C4 D3 E5 G7 I7 I9 J10 K2 L1 L6 L7 M2 M9 N3 N8	Use Compactron Adaptor on Position V.
21HJ5	A1 B4 B9 C2 D3 E5 G7 I7 I9 J10 K2 L1 L6 L7 M2 M9 N3 N8	Use Compactron Adaptor on Position V.
22BH3	A4 B5 C9 G2 G7 I6 I10 K7 L4 L6 L10 M2 M9 N3 N8	Use Novar Adaptor. Reject if below 4.

TUBE TYPE	HOLE LOCATIONS	TESTING INSTRUCTIONS
22BW3	A1 B9 C7 G4 I6 I10 K5 K6 L4 L6 L10 M1 M9 N3 N8	Use Compactron Adaptor on Position V. Reject if below 3.
22JG6	A4 B5 C3 C6 D2 E1 E7 G9 I8 I10 J10 K8 L1 L6 L8 M2 M9 N3 N8	Use Novar Adaptor.
23Z9 Pentode Unit	A1 B9 C5 D6 E7 G3 I6 I10 J9 K2 L1 L6 L7 M1 M9 N3 N8	Use Compactron Adaptor on Position Z.
23Z9 Triode Unit 1	A1 B9 C5 D8 G10 I6 I10 J3 K7 L1 L6 L7 M1 M9 N3 N8	Use Compactron Adaptor on Position Z.
23Z9 Triode Unit 2	A1 B9 C7 D3 G2 I6 I10 J6 K4 L1 M1 M9 N3 N8	Use Compactron Adaptor on Position V.
27GB5	A4 B5 C3 C8 D1 D2 E6 E7 G10 I6 I10 J10 K6 K7 L1 L6 L8 M3 M10 N2 N8	Use Novar Adaptor.
28GB5	A4 B5 C3 C8 D1 D2 E6 E7 G10 I6 I10 J10 K6 K7 L1 L6 L8 M4 M10 N3 N8	Use Novar Adaptor.
28HD5	A1 B9 C4 D3 E5 G7 I7 I9 J10 K2 L1 L6 L7 M5 M10 N3 N8	Use Compactron Adaptor on Position V.
30AG11 Diode Unit	A1 B9 C2 C10 F3 G8 I6 I10 K2 L3 M5 M10 N5 N8	Use Compactron Adaptor on Position X. Test P1 and P2. Reject if below 2.
30AG11 Triode Unit	A1 B9 C4 C10 D5 D8 F6 G7 I6 I10 J2 K5 L1 L6 L7 M5 M10 N5 N8	Use Compactron Adaptor on Position W. Test P1 and P2. Depress Special Leakage/Gas Button in gas test.
30HD5	A1 B9 C4 D3 E5 G7 I7 I9 J10 K2 L1 L6 L7 M4 M10 N5 N8	Use Compactron Adaptor on Position V.
30HJ5	A1 B4 B9 C2 D3 E5 G7 I7 I9 J10 K2 L1 L6 L7 M4 M10 N5 N8	Use Compactron Adaptor on Position V.
33GT7 Pentode Unit	A1 B9 C6 D7 D10 E8 G3 I7 I9 J10 K4 L1 L6 L7 M1 M10 N4 N8	Use Compactron Adaptor on Position Z.
33GT7 Diode Unit	A1 B9 C4 G2 I6 I10 K4 L4 L6 L10 M1 M10 N4 N8	Use Compactron Adaptor on Position V. Reject if below 3.
33GY7 Pentode Unit	A1 B9 C6 D7 D8 E10 G3 I7 I9 J10 K4 L1 L6 L7 M1 M10 N4 N8	Use Compactron Adaptor on Position Z.
33GY7 Diode Unit	A1 B9 C4 G2 I6 I10 K4 L4 L6 L10 M1 M10 N4 N8	Use Compactron Adaptor on Position V. Reject if below 3.
38HE7 Diode Unit	A1 B9 C4 G2 I6 I10 K2 K3 L4 L6 L10 M5 M8 N5 N7	Use Compactron Adaptor on Position V. Reject if below 4.
38HE7 Pentode Unit	A1 B9 C6 D7 E10 G3 I6 I10 J10 K6 K7 L1 L6 L8 M5 M8 N5 N7	Use Compactron Adaptor on Position Z.
7868	A4 B5 C3 D2 D6 E1 E7 G9 I6 I10 J5 K1 K2 L1 L6 L7 M4 M10 N2 N9	Use Novar Adaptor. Reject if below 4.
7984	A1 B9 C5 C7 C8 D10 E6 G2 G3 G4 I6 I10 J9 K7 L1 L6 L8 M2 M10 N5 N9	Use Compactron Adaptor on Position Y.
8113	Use 6CY5 Data.	
8156	A1 B9 C4 C6 C7 D8 E5 E10 G2 G3 I6 I10 J9 K3 L1 L6 L7 M2 M10 N4 N9	Use Compactron Adaptor on Position Z.

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